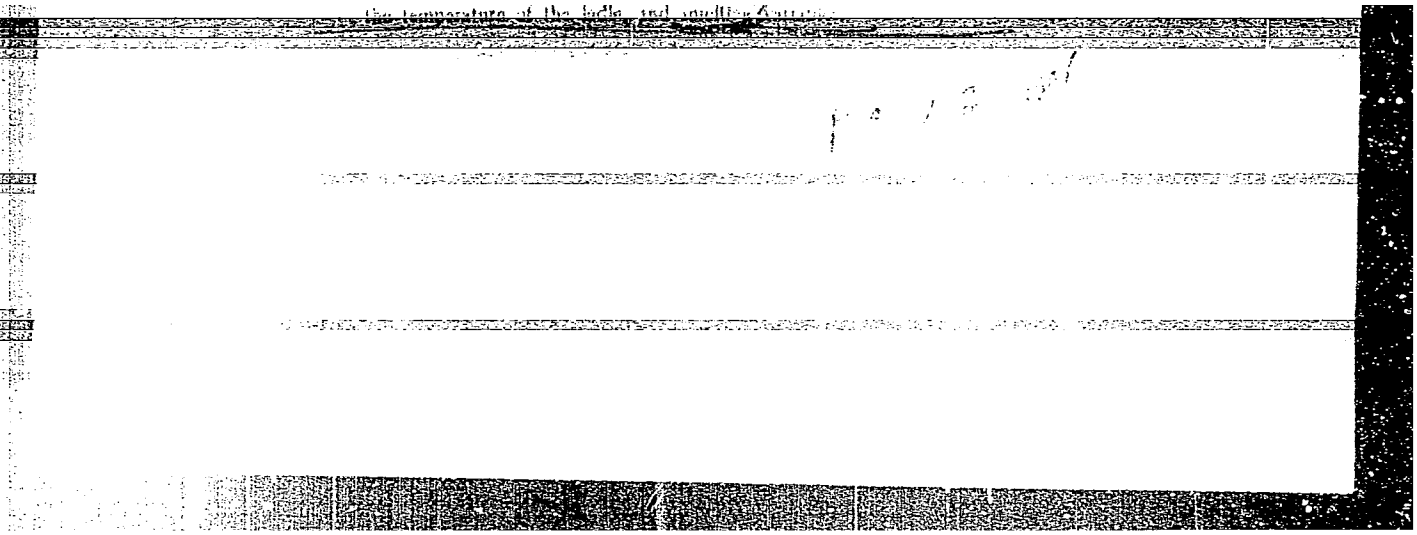
[illegible]-915 (Russian) Effect of Super[illegible] [illegible] Magnesium Introduction on Properties of [illegible] [illegible] Graphite. Vliianie temperatury [illegible] magniia n[illegible] svoistva chuguna s sharovidnym grafitom. [illegible] Fatalonov and M. S. Kolmakova. Liteinoe Proizvodstvo, Mar 1957, p 14-16.

Investigation of the relation between the amount of [illegible] the temperature of the ladle, and spheroidizing [illegible]



SOV/137-58-10-21565

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 158 (USSR)

AUTHOR: Kolmakova, M.S.

TITLE: The Effect of Thermal Smelting Conditions on Mechanical Properties and Quasi-isotropism of Inoculated Cast Iron (Vliyaniye termicheskikh usloviy plavki na mekhanicheskiye svoystva i kvaziizotropnost' modifitsirovannogo chuguna)

PERIODICAL: Tr. Omskogo mashinostroit. in-ta, 1958, Nr 2, pp 111-125

ABSTRACT: An examination of the effect of overheating (temperature of metal during inoculation), casting temperature, and the dimensions of components on the mechanical properties and quasi-isotropism (QI) of inoculated cast iron (ICI). It was established that of all theories on overheating the theory of I.N. Bogachev is the most authentic; experimental results on inoculation of cast iron agree closely with it. Overheating of ICI (from 1420 to 1600°C) improves its mechanical properties but impairs its quasi-isotropism. A lowering of the casting temperature to 1330° improves the mechanical properties and the QI. The QI of the ICI is greater than that of gray cast iron. The results of the investigation provide a picture of the relation between the

Card 1/2

SOV/137-58-10-21565

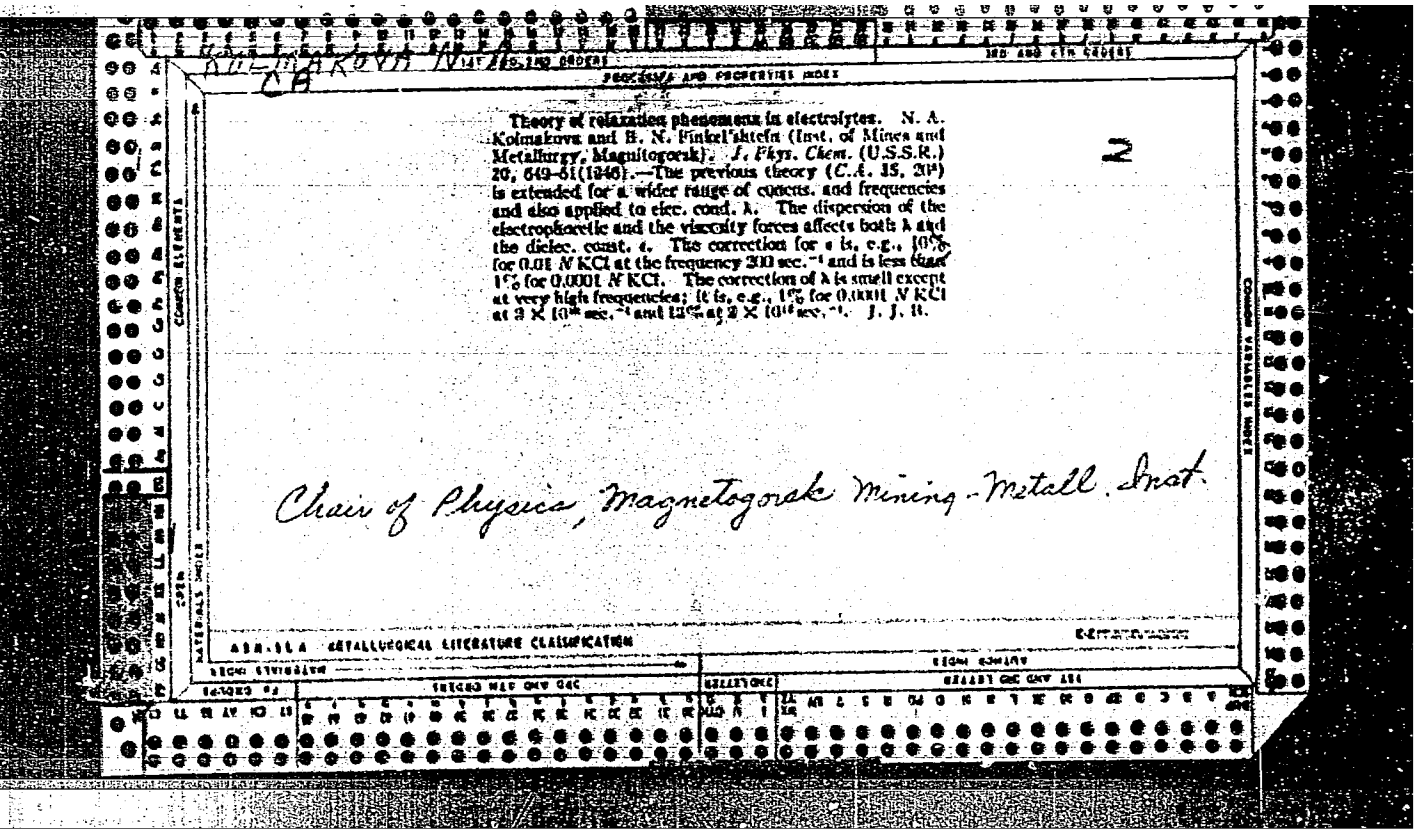
The Effect of Thermal Smelting Conditions (cont.)

thermal smelting conditions and the mechanical and quasi-isotropic properties, thus facilitating proper selection of materials and engineering processes.

A.S.

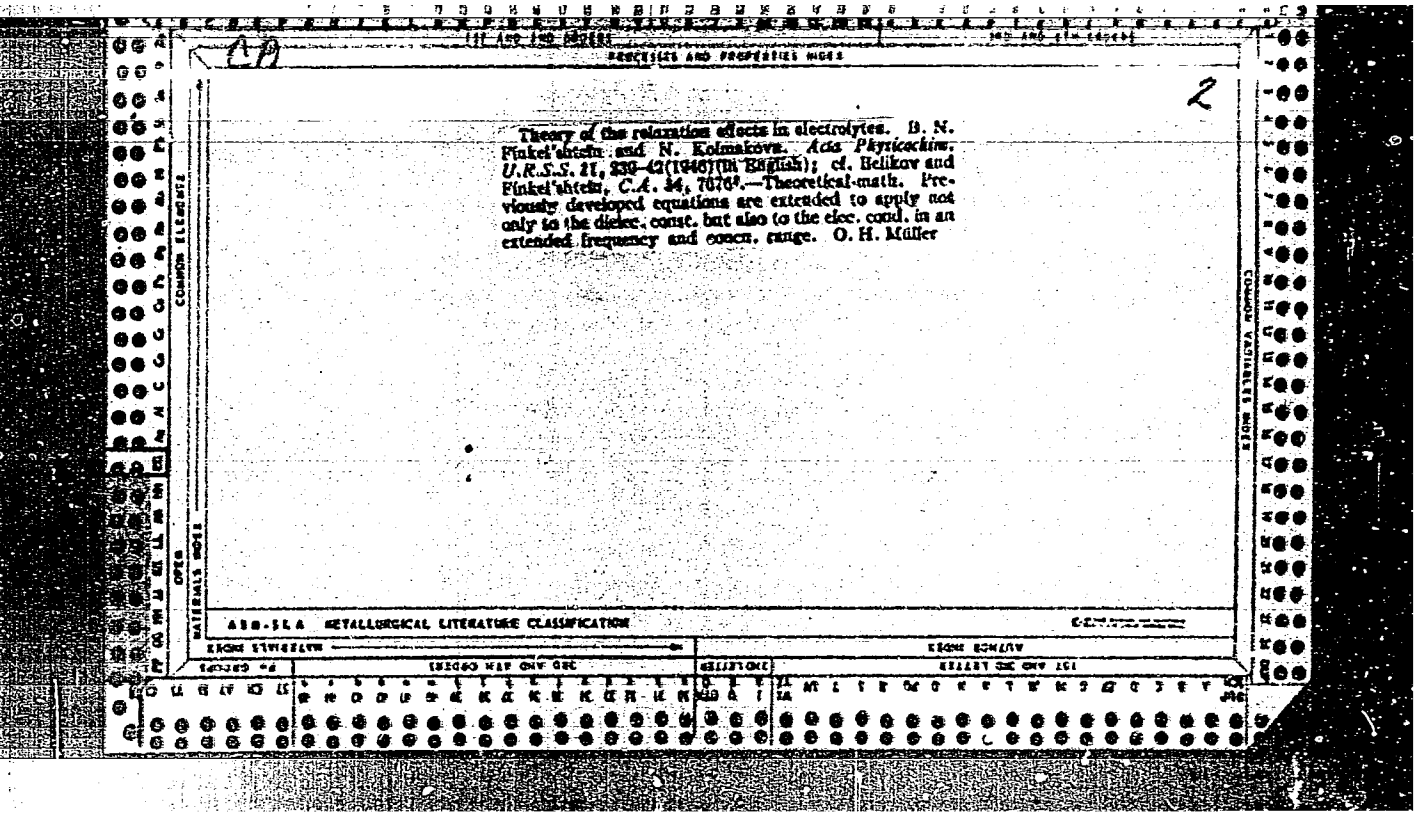
1. Cast iron--Production 2. Cast iron--Temperature factors 3. Cast iron --Properties

Card 2/2



Theory of relaxation phenomena in electrolytes. N. A. Kolmakova and B. N. Finkel'shtein (Inst. of Mines and Metallurgy, Magnitogorsk). *J. Phys. Chem.* (U.S.S.R.) 20, 649–51(1946).—The previous theory (*C.A.* 35, 39[9]) is extended for a wider range of concns. and frequencies and also applied to elec. cond. λ. The dispersion of the electrophoretic and the viscosity forces affects both λ and the dielec. const. ε. The correction for ε is, e.g., 10% for 0.01 *N* KCl at the frequency 300 sec.$^{-1}$ and is less than 1% for 0.0001 *N* KCl. The correction of λ is small except at very high frequencies; it is, e.g., 1% for 0.0001 *N* KCl at 2×10^{8} sec.$^{-1}$ and 12% at 2×10^{10} sec.$^{-1}$. J. J. B.

Chair of Physics, Magnetogorsk Mining-Metall. Inst.



Theory of the relaxation effects in electrolytes. B. N. Finkel'shtein and N. Kolmakova. *Acta Physicochim. U.R.S.S.* 21, 339–42(1946)(In English); cf. Belikov and Finkel'shtein, *C.A.* 34, 7676⁹.—Theoretical-math. Previously developed equations are extended to apply not only to the dielec. const. but also to the elec. cond. in an extended frequency and concn. range. O. H. Müller

KHATSAREVICH, TS.M.; KOLMAKOVA, N.A.; SVINORUK, V.I.

Using the chrome emulsion method without pickling for leather tanning. Kozh.-obuv.prom. 2 no.4:15-17 Ap '60. (MIRA 13:9)
(Tanning)

KOLMAKOVA, N. A.

Category : USSR/Acoustics - Ultrasound J-4

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2164

Author : Kolmakova, N.A.
Title : Temperature Coefficient of Absorption of Ultrasonic Waves in Acetic-Acid Ethers

Orig Pub : Primeneniye ul'traakustiki k issled. veshchestva. Vyp. 3. M., MOPI, 1956, 95-103

Abstract : Pulse methods are used to investigate the temperature dependence of the coefficient of absorption (α) of ultrasonic waves at frequencies ν = 9.6 (9.5) and 11.4 (11.75) Mc in acetic methyl ether (in the temperature range from -65.0 to +51.0°, acetic ethyl ether (from -68.0 to +92.0°), acetic amyl ether (from -62.0 to +91.0°) and acetic iso-amyl ether (from -59.0 to +96.0). The measurement error fluctuated from 2 to 8%. The resultant values of α/ν^2 are tabulated. In all the ethers investigated, the temperature dependence of α/ν^2 is qualitatively the same: increasing the temperature causes α/ν^2 to drop sharply in the low-temperature region, pass through a minimum, and increase slightly with further increase in temperature. Increasing the molecular weight of the ether shifts the position of the minimum toward the higher temperature, narrows down the region of the minimum, and increases the absorption of the sound. Bibliography, 9 titles.

Moscow Oblast' Pedagogical Inst.

Card : 1/1

SVINCHUK, V.I.; KOLMAKOVA, N.A.

Apparatus for preparing fatty emulsions by means of a hydrodynamic vibrator. Kozh.-obuv. prom. 2 no. 11:38-39 N '60. (MIRA 13:12)
(Emulsions) (Vibrators)
(Ultrasonic waves--Industrial applications)

KOLMAKOVA, N.A.; SVINORUK, V.I.

Use of ultrasound for obtaining fat liquors for chrome emulsion tanning and stuffing of leather. Prim. ul'traakust. k issl. veshch. no.14:345-348 '61. (MIRA 14:12)
(Ultrasonic waves--Industrial applications) (Leather)

KATAYEVA, N.A.; KOLMAKOVA, N.A.

Effect of ultrasound on the adsorption of iodine from the flow of aqueous and alcohol solutions. Zhur.fiz.khim. 37 no.7:1593-1594 Jl '63. (MIRA 17:2)

1. Taganrogskiy radiotekhnicheskiy institut.

ACC NR: AP6022240 SOURCE CODE: UR/0000/66/000/000/0053/0059

AUTHOR: Kolmakova, S. A.; Terpugov, A. F.

ORG: none

TITLE: The optimum radar pulse shapes in the Bayes case

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya radiotekhniki. Doklady. Moscow, 1966, 53-59

TOPIC TAGS: radar pulse, radar signal analysis, signal noise ratio

ABSTRACT: The form of radar pulse is sought for which the deviation of the Bayes estimate of reflected radar pulse delay time is minimum. The general problem is analyzed in parts, i.e., for small and large S/N ratios. It is assumed that the noise is additive, stationary, has an average value of zero, and its spectrum is flat in the system bandpass. The solutions are worked out using the M-20 digital computer and presented in the form of normalized graphs. The problem in which the radar pulses have pure modulation are also treated analogously. Orig. art. has: 18 formulas and 2 figures.

SUB CODE: /7/ SUBM DATE: 16Mar66/ OTH REF: 001

Card 1/1

KOLMAKOVA, V. D.

14-57-6-12672

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

AUTHOR: Kolmakova, V. D.

TITLE: Main Insect Species Harmful to the Fruit and Berry Industry in the Trans-Baykal Area (Osnovnyye vidy nasekomykh, vredyashchikh plodovo-yagodnym kul'turam v Zabaykal'ye)

PERIODICAL: Sb. rabot In-ta prikl. zool. i fitopatol., 1956, Nr 4, pp 91-97

ABSTRACT: Collected specimens of full-grown insects and larvae have furnished data on the pests which afflict the fruit and berry industry in the Trans-Baykal area. The most harmful types are: aphid Aphis pomi, beetles of the Phyllobius and Magdalis species; butterflies Itamae circumflexaria, Larentia fulvata, Abraxas grossulariata; fruit-eaters of the Grapholitha genus; leaf-curling

Card 1/2

Main Insect Species Harmful to the Fruit (Cont.) 14-57-6-12672

Simaethis griseana and Gelechia hippophaella. Insects are doing very great damage to apple trees in the Buriat-Mongolian ASSR.

Card 2/2

KOLMAKOVA, V. D.

USSR / General and Special Zoology. Insects. Harmful Insects and Mites. Fruit and Berry Crop Pests. P

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2333.

Author : Kolmakova, V. D.
Inst : Not given.
Title : A Contribution to the Biology of Siberian Tortricid Moths of the Genus Grapholitha (Lepidoptera, Tortricidae) Which Damage Fruit Trees in the Transbaykal Region.

Orig Pub: Entomol. obozreniye, 1958, 37, No 1, 134-150.

Abstract: Gr. prunifoliae is a pest of the apple fruit on a large scale, for the most part of the small-fruit hybrid varieties, while Gr. cerasana is a pest of the sand cherry tree, the Siberian

Card 1/3

Chair Gen. Entomology, Inst Applied Zoology and Phytopathology, Leningrad

39

MIKHAYLOVA, K.K., mladshiy nauchnyy sotrudnik; KOLMAKOVA, V.M., inzh.

New loom. Tekst.prom. 20 no.7:32-34 Jl '60. (MIRA 13:7)

1. Eksperimental'naya laboratoriya Tsentral'nogo nauchno-issledovatel'skogo instituta promyshlennosti lubyanykh volokon (for Mikhaylova) 2. TSentral'naya nauchno-issledovatel'skaya laboratoriya Kostromskogo l'nokombinata imeni Lenina (for Kolmakova).
(Looms)

MIKHAYLOVA, K.K., nauchnyy sotrudnik; KOLMAKOVA, V.N., inzhener

MM-150 Li reel. Tekst.prom. 20 no.5:34-36 My '60.
(MIRA 13:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut lubyanykh volokon (for Mikhaylova). 2. TSentral'naya nauchno-issledovatel'skaya laboratoriyay l'nokombinata imeni V.I.Lenina (for Kolmakova).
(Reels(Textile machinery))

KOLMAKOVA, Z. S.

33277. Novyye Gibridnyye Sorta Pshenitsy. Sel. Khoz-vo Tadzhikistana, 1949, No. 5, C. 20-24.

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

NEVZOROV, V.; KOLMAKOVA, Z. S.

Wheat

New high-yielding wheat strain - Tzjik Beardless 16. Dost. sel'khoz. No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

KOLMAKOVA, Z. S.

Country : USSR
CATEGORY : CULTIVATED PLANTS. General Problems. M

ABS. JOUR. : RZBiol., No. 1 1959, No. 1554

AUTHOR : Kreyvik, B.M.; Kolmakova, Z.S.
INST. : Tadzhik Scientific Research Inst. of Agric.
TITLE : The Application of Certain Findings of the Tajzhik State Selection Station to Kolkhoz and Sovkhoz Production.

ORIG. PUB. : Byul. nauchno-tekhn. inform. Tadzh.n.-i.in-t zemledel., 1957, No.1, 3-9

ABSTRACT : Ten-field crop rotation is recommended with the planting of perennial grasses, together with the application of herbicides to control weeds. In the zone provided with precipitation, nonirrigated plots can be cultivated and yield high harvests of Surkhak 5650 and Tadzhikskaya 10 wheats, Khordzhou 18 barley, Gissarskiy 474 and other flaxes, Alfalfa Hybrid No.1, Odesskaya 25, Minel'skaya and Krasnodarskaya sudangrass, Gigant and Gigant

CARD: 1/ 2

COUNTRY :
CATEGORY : CULTIVATED PLANTS.

ABS. JOUR. : RZhBiol., No. 1 1959, No. 1554

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : Saratovskiy sunflowers for ensilage and the corn varieties for grain and silos: local white and yellow flint, Moldavskaya zheltaya and hothouse flint Kichkasskaya, Tashkentskaya 56 and others for non-irrigated plots, and Liming, Sterling, Osetinskaya otbornaya, etc. for irrigated patches.--O.A. Gorbunova

CARD: 2/2

7

KOLMAKOVA, Z. S.

Country : USSR
Category: Cultivated Plants. Grains

Abs Jour: RZhBiol., No 11, 1958, 48852

Author : Kolmakova, Z.S.
Inst : Tadzhik Sci. Res. Inst. of Agriculture
Title : Prospective Varieties of Hard Wheat.

Orig Pub: Byul. nauchno-tekhn. inform. Tadzh. n.-i. in-t zemled., 1957, No 1, 9-12

Abstract: This article describes the hard wheat varieties Lyaylak bogori, Black-Spiked Tadzhikskaya improved at the Tadzhik Selection Station. These are spring varieties but produce best results in late fall sowing (end of November - beginning of December).

Card : 1/2

KOLMAN, Arnost, akademik

Technical sciences. Nova technika no.6:245-247 '60.

S/269/63/000/001/001/032
A001/A101

AUTHOR: Kolman, Arnošt

TITLE: Space, time, matter and motion in cosmology

PERIODICAL: Referativnyy zhurnal, Astronomiya. no. 1, 1963, 2, abstract no. 1.51.2 ("Otázky marxist. filoz.", 1961, v. 16, no. 5, 331 - 343, Czech)

TEXT: The article represents the exposition of a lecture delivered at the conference on philosophical problems of cosmogony and cosmology, which took place at Tatra Lomnice (Czechoslovakia) on June 6 - 8, 1961. The author discusses briefly the nature of sciences constituting the basis of cosmology, relation of cosmology to astronomy, and the problem of cosmological constants. The importance of establishing the applicability limits of extrapolation as a method of cosmological studies is noted. The author emphasizes the unit of space, time and matter, the physical proof of which was secured by the general theory of relativity. He considers the concepts of "finite" and "infinite", models of the Universe which make it possible, on the basis of using mathematical schemes, to solve the

Card 1/2

Space, time, matter and motion in cosmology

S/269/63/000/001/001/032
A001/A101

problems of matter distribution and its interaction with fields; hierarchy of cosmic systems; energy transfer; geometrical properties of the Universe. Data obtained in investigations of the observed part of the Universe are discussed. Difficulties are mentioned which arise when these data are extrapolated to the Universe as a whole (Seeliger's gravitational paradox, Olbers's photometrical paradox, "thermal death" of the Universe). The author stresses the necessity of generalizations in cosmology from the viewpoint of dialectical materialism. In conclusion he points out that a creative cooperation of naturalists and philosophers is necessary.

V. Abalakin

[Abstracter's note: Complete translation]

Card 2/2

KOZESNIK, Jaroslav, akademik; BLASKOVIC, Dionyz, akademik; KOLMAN, Arnost, akademik; MACURA, Jiri, dr.; VANA, Josef; GOSIOROVSKY, Milos; BOHM, Jaroslav, akademik; PROCHAZKA, Jaroslav, prof., dr.; HAMPEJS, Zdenek, dr.; BRABEC, Frantisek, prof, inz., dr.; SORM, Frantisek, akademik; NOVAK, Josef, akademik; NEUMANN, Jaromir, doc., dr.; BAZANT, Vladimir, inz., dr.; KOUNOVSKY, Bohumil, dr.; SZANTO, Jan, dr.; ROZSIVAL, Miroslav, dr.; KASPAR, Jan, dr.; HANKA, Ladislav, prof., inz.; STRNAD, Julius; WICHTERLE, Otto, akademik; ZATOPEK, Alois; JAVORNICKY, Jan, inz.; VAVRA, Jaroslav, dr.; BLATNY, Ctibor, akademik; ONDRIS, Karol, dr.; KUKAL, Vaclav, inz.

The 22d Congress of the Communist Party of the Soviet Union and the tasks of Czechoslovak science; discussion. Vestnik CSAV 71 no.1:3-59 '62.

1. Hlavni vedecky sekretar Ceskoslovenske akademie ved (for Kozesnik). 2. Clen korespondent Ceskoslovenske akademie ved (for Vana, Gosiorovsky, Kaspar, Strnad, Zatopek). 3. Rektor Karlovy university (for Prochazka). 4. Rektor Ceskeho vysokeho uceni technickeho (for Brabec). 5. Namestek presidenta Ceskoslovenske akademie ved (for Sorm)

BRINBERG, S. L.; KOL'MAN, A. E.; SKVORTSOVA, A. P.

"The influence of individual components of nutritive media on the biosynthesis of florimycin (viomycin). Its dependence on the composition of the medium as a whole."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Cent Antibiotic Res Inst, Moscow.

BRINBERG, S.L.; KOL'MAN, A.E.; SKVORTSOVA, A.P.

Effect of iron on the formation of florimycin. Antibiotiki 8 no. 11:1002-1005 N '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

NEFELOVA, M.V.; KOL'MAN, A.E.

Comparative study of amino acids formed by the aurantin producer. Mikrobiologiia 32 no.4:603-609 Jl-Ag '63. (MIRA 17:6)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

BRINDBERG, S.L.; KOL'MAN, A.E.; SKVORTSOVA, A.P.

Comparative physiological studies on floribycin (viomycin) producing organisms. Antibiotiki 8 no.10:870-877 O '63. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

KULIKOV, V.A., kand. tekhn. nauk; MARTYNIKHINA, N.M., inzh; KOL'MAN, B.P., inzh.

Vacuum gluing of plywood. Der. prom. 13 no.3:14-17 Mr '64. (MIRA 17:7)

1. Lesotekhnicheskaya akademiya imeni S.M. Kirova.

TRAPEZIN, I.I., doktor tekhn. nauk, prof.; KOL'MAN, E.R., prepodavatel'.

Free vibrations of a thin conical shell in a compressed gas medium. Izv. vys. ucheb. zav.; mashinostr. no.5:58-66 '65.
(MIRA 18:11)

1. Moskovskiy stankoinstrumental'nyy institut.

KOL'MAN, G.V.

Oceanographic research of the Arctic Institute of North America in the area of Devon Island, 1961-1964. Okeanologiia 4 no.3: 542-543 '64 (MIRA 18:1)

KOL'MAN, O.V.

Oceanographic research of Chile and Argentina in Antarctica.
Okeanologiia 4 no.5:925 '64 (MIRA 18:1)

RADOVSKIY, M.I.; KOL'MAN, E.; KLADO, T.N. [translator]

History of calculating devices; materials of the Archives of teh Academy of Sciences of the U.S.S.R. Ist. mat. issl. no.14: 551-586 '61. (MIRA 16:10)

(Calulating machines)

KOL'MAN, E. (Moskva)

Interesting but debatable attempt of the further development of the theory of relativity. Priroda 54 no.1:117-119 Ja '65. (MIRA 18:2)

KOL'MAN, E. [Kolman, E.], prof.

Mathematics in the new areas of knowledge. Priroda 53 no.1:11-19 '64.
(MIRA 17:2)

1. Deystvitel'nyy chlen Chekhoslovatskoy Akademii nauk.

PEKELIS, V.D.; BERG, A., akademik, red.; KOL'MAN, E., akademik, red.; RYCHKOVA, N.G., red. izd-va; PRUSAKOVA, T.A., tekhn. red.

[The possible and impossible in cybernetics] Vozmozhnoe i nevozmozhnoe v kibernetike; sbornik statei. Moskva, Izd-vo AN SSSR, 1963. 221 p.

VYAL'TSEV, Anatoliy Nikolayevich; KOL'MAN, E., otv. red.

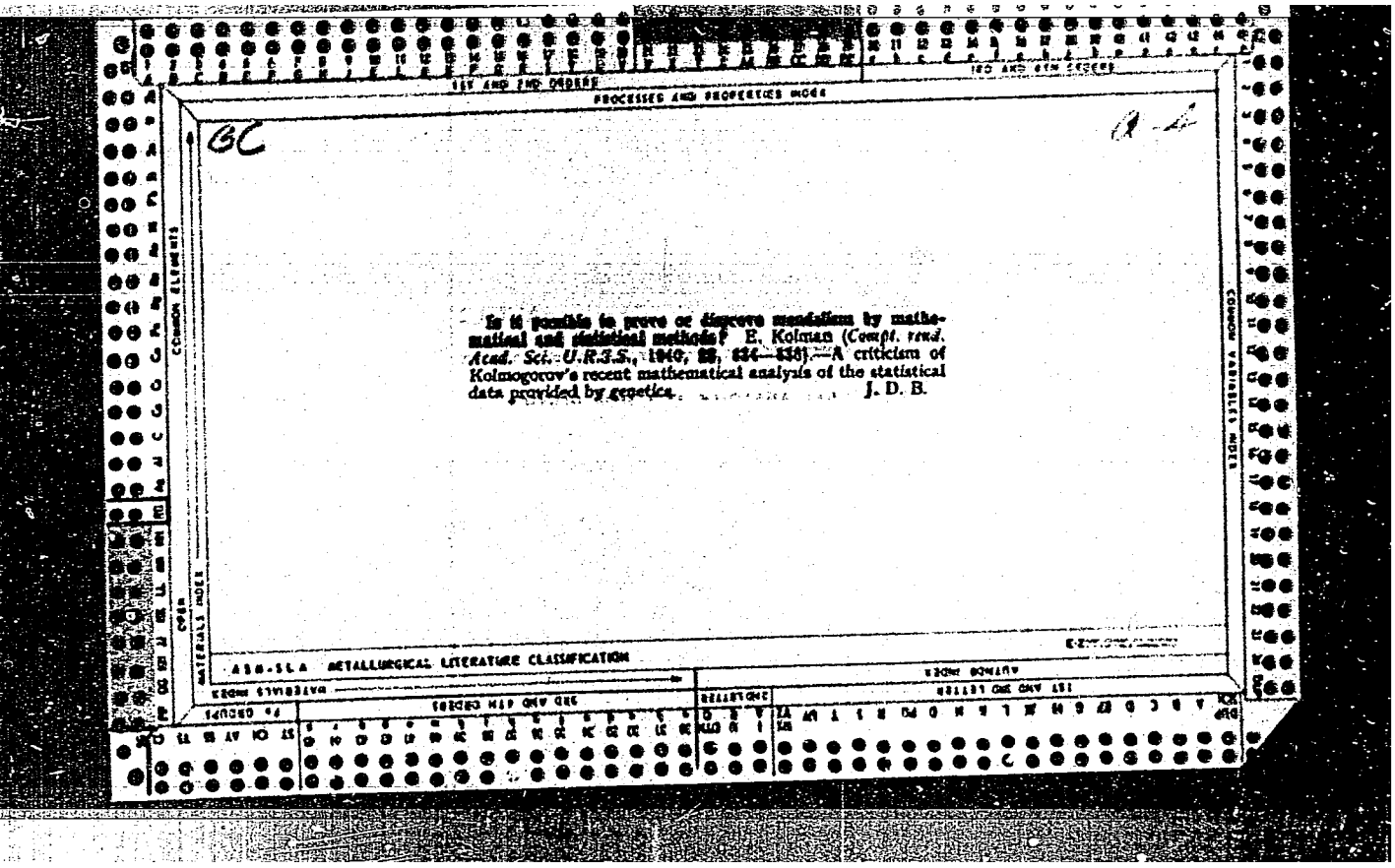
[The discrete space-time] Diskretnoe prostranstvo-vremia. Moskva, Nauka, 1965. 397 p. (MIRA 18:6)

KOL'MAN, E.

Velikiy myslitel' N.I. Lobachevskiy. M., Gospolitizdat (1944), 1-100.

Gegel' i matematika. Zh pod znamenem marksizma, 11-12 (1931), 107-120. Sm. takzhe sbornik statey k 100-letiyu so dnya smerti gegelya gegel' i dialekticheskiy materializm. M., partizdat (1932), 259-275).

SO: Mathematics in the USSR, 1917-1947
Edited by Kurosh, A.G.,
Markusevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948



GC

Is it possible to prove or disprove mendelism by mathematical and statistical methods? E. Kolman (*Compt. rend. Acad. Sci. U.R.S.S.*, 1940, **28**, 634—638).—A criticism of Kolmogorov's recent mathematical analysis of the statistical data provided by genetics. J. D. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

SUBJECT USSR/MATHEMATICS/History of Mathematics CARD 1/1 PG - 313
AUTHOR KOL'MAN E.
TITLE Bernhard Bolzano.
PERIODICAL Moscow: Publication of the Academy of Sciences of the USSR (1955) 224 p.
reviewed 10/1956

The author gives a bibliography of Bernhard Bolzano. After a description of his descent and his studies the mathematical work of Bolzano is represented and discussed in a clear manner, sometimes it is considered critically. The detailed bibliography contains an interesting list of methematical books of Bolzano's privat library. The book contains some extracts of papers due to Bolzano and some pictures and portraits.

KOL'MAN, E.

An unpublished letter by K.F. Gauss. Trudy Inst.ist.est.i tekh. 5: 385-394 '55. (MLRA 9:5)
(Gauss, Karl Friedrich, 1777-1855)

KOL'MAN, E. (Reviewer)

USSR/Astronomy - Cosmology

Card 1/1 : Pub. 86 - 32/35

Authors : Kol'man, E., Prof.

Title : The origin of the worlds

Periodical : Priroda 44/2, 121 - 123, Feb 1955

Abstract : A review is made of the French-language book, "The Origin of the Worlds", by Paul Laberenne, new and revised edition, published in Paris in 1953 by Les Editeurs Francais Reunis and containing 271 pages. The book is found to be highly materialistic, refuting the Nietsche theory of the eternal cycle and the theories of a limit of time as well. The book is praised because of its communistic leaning. One English reference (1946). Illustration.

Institution : .....

Submitted : .....

KOLMAN, E.

Remarks on the discussions about the theory of relativity. Tr. from the Russian. (to be contd.) p. 250

Vol. 61, no. 8, Aug. 1955
MAGYARKEMIAI FOLYOIRAT
Budapest

Source: Monthly list of East European Accessions, (EEAL), LC,
Vol. 5, no. 3, March 1956

KOLMAN, E.

Notes on the discussions about the theory of relativity. II. Tr. from the Russian. (To be contd.) p. 287. MAGYAR KEMIAI FOLYOIRAT. Budapest. Vol. 61, no. 9, Sept. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

KOLMAN, E.

Notes on the discussions about the theory of relativity. III. Tr. from the Russian. p. 319. MAGYAR KEMIAI FOLYOIRAT. Budapest. Vol. 61, no. 10, Oct. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

KOL'MAN, E.

"What is Cybernetics?" Voprosy filosofii /Problems of Philosophy/, 1955, No. 4, Pages 148 - 159.

KOL'MAN E.

Kibernetika [Cybernetics], Znaniye Publishing House, Moscow, 1956, Series I, No. 23, 40 pages.

KOL'MAN, Ernest, professor, doktor filosofskikh nauk; KOVTUN, Yu.Ye., redaktor; ISLENT'YEVA, P.G., tekhnicheskiy redaktor

[Cybernetics; machines performing some mental functions of man] Kibernetika; o mashinakh, vypolniaiushchikh nekotorye psikhicheskie funktsii cheloveka. Moskva, Izd-vo "Znanie," 1956. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 3, no.27) (MLRA 9:8)
(Cybernetics)

KOL'MAN, E., prof.; GORPINICH, K.Ye., uchitel'; SHTEPAN, V.Ye., prepodavatel' teoreticheskoy mekhaniki; VLASOV, O.Ye., prof. (Moskva); MERKULOV, I.T. (Ul'yanovsk); KUTSEV, M.M. (Kuybyshev); CHAPTYKOV, P.G. (Leningrad); DEMIN, V.N. (Tashkent); TUKMAN, R.E. (Tallin); GERTS, G., doktor fizicheskikh nauk, dotsent; DUDEL', S.P., doktor filosof. nauk, prof. (Moskva)

Finiteness and infinity in the universe; survey of letters and articles received by the editor. Priroda 54 no.8:97-102 Ag '65. (MIRA 18:8)

1. Shkola No.8 g. Kremenchuga (for Gorpinich). 2. Krasnoyarskiy politekhnicheskiy institut (for Shtepan). 3. Filosofskiy fakul'tet universiteta im. Gumbol'dta, Berlin, Germanskaya Demokraticheskaya Respublika (for Gerts).

AP5016011 UR/0105/65/000/005/0058/0066
534-13

Margolin, I. I. (Doctor of technical sciences, Professor); Kol'man, E. B.

Free oscillations of a thin conical shell, placed in a compressible gas

Izv. Mashinostroyeniye, no. 5, 1965, 58-66

TOPIC TAGS: shell theory, compressible gas, conical shell vibration, circular approximation method, finite difference method

ABSTRACT: The free oscillations of reinforced ribs (in the peripheral direction and in the direction that forms thin circular conical shells) were analyzed under a uniform pressure load. The differential equation of motion for an orthotropic, conical shell compressed under uniform pressure including the inertia of transverse [illegible] is given first. The displacement and the force function are then expressed

$$w(s, \vartheta, t) = w_0(s) + w_1(s, \vartheta, t)$$

$$\varphi(s, \vartheta, t) = \varphi_0(s) + \varphi(s, \vartheta, t)$$

$$w_i = \phi(s)\, tg\alpha \cos n\vartheta \cos \omega$$

ψ_1 are given by $\psi_i = \chi(s)\, e^{\beta} Ch\, f_i\, tg^2 \alpha \cos n\vartheta$ [illegible] $f_i = \sqrt{\dfrac{\cdots}{\cdots}}\, \dfrac{h}{l_i}$.

[illegible] are substituted in the equation of [illegible], nondimensionalized, and [illegible] following fourth order differential form

$$x^4 \frac{d^4\psi}{dx^4} + 6x \frac{d^3\psi}{dx^3} + 6 \frac{d^2\psi}{dx^2} + \left[\frac{\Omega}{x^4} \cdots \right] \psi = 0$$

[illegible] conditions

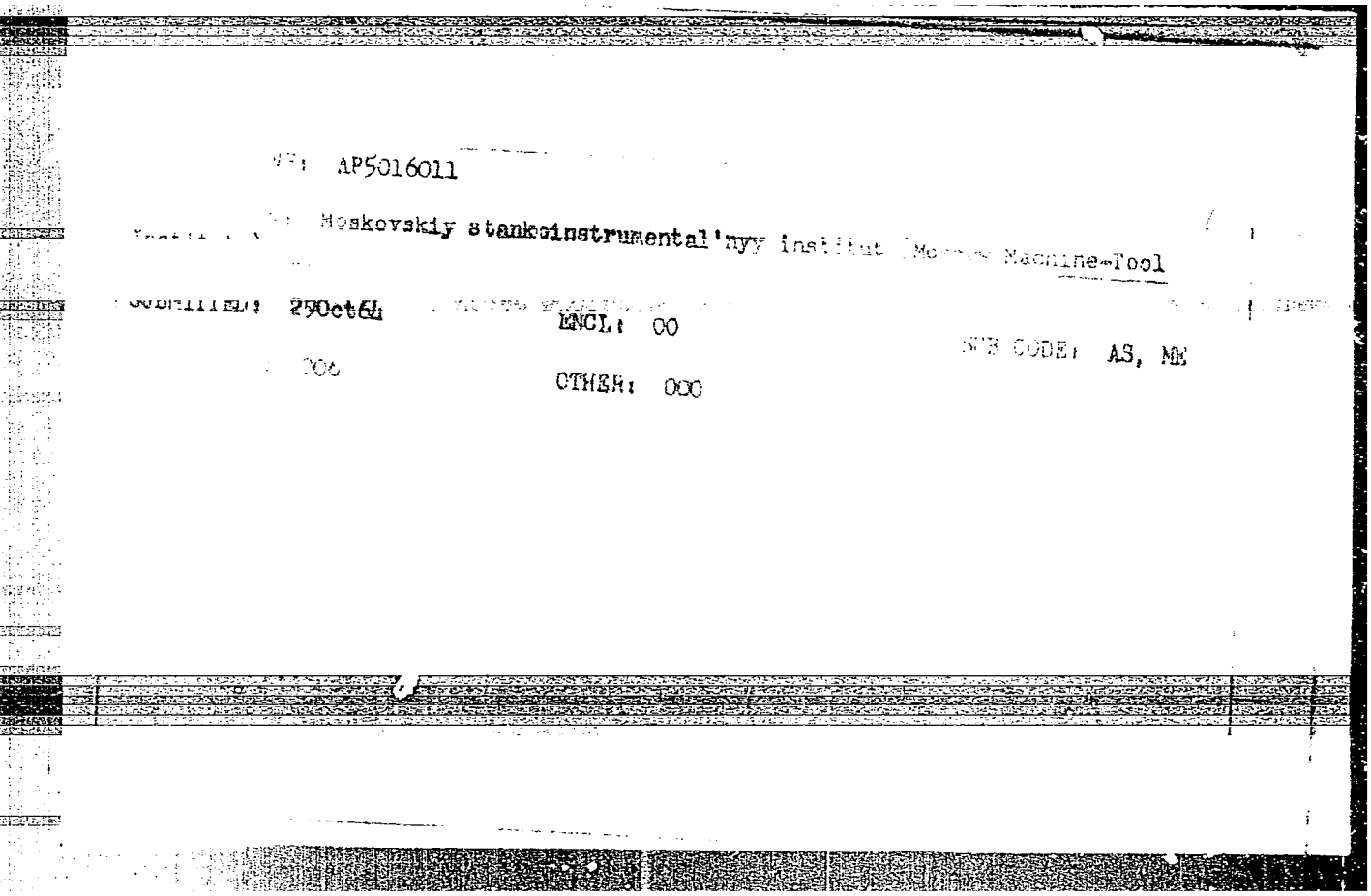
$$\psi_0 = 0, \quad \psi_0' + \cdots \psi_0' = \cdots$$

$$\psi_1 = 0, \quad \psi_1' + \cdots \psi_1' = \cdots$$

[illegible] hinged system. The governing [illegible] [illegible] by a finite [illegible] for various special cases such as [illegible] $\xi = \xi_1$ [illegible] the absence of pressure, the free [illegible] frequency is given by

$$\omega_n = \frac{\xi_0}{\sqrt{\xi_1 \nu_1}} \cdot \frac{\Omega_n}{\sqrt{\cdots}} \quad \text{[illegible]}$$

[illegible] conical shell with $\lambda = l_0 / l_1 =$ [illegible] almost [illegible] above approximation is found to be in [illegible] agreement with [illegible] as well as experimental results. [illegible] equations and



AP5016011

Moskovskiy stankoinstrumental'nyy institut [Moscow Machine-Tool

SUBMITTED: 29Oct64 ENCL: 00

SUB CODE: AS, MM

NR REF SOV: 000 OTHER: 000

Transactions of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Call Nr: AF 1108825

Call Nr: AF 1108825

Mention is made of Romer, P. E., Vashchenko-Zakharchenko, M. G., Yermakov, V. P., Grave, D. A., Bukreyev, Pokrovskiy, Pfeyffer, Vel'min, V. P., Abramovich, K. F., Delone, B. N., Zhilinskiy, Ye.I., Ostrovskiy, A. M., Shmidt, O. Yu., and Chebotarev, N. G.

Kiro, S. N. (Odessa). Mathematics at the Congresses of Russian Nature Researchers and Physicians. 231-232

Chebyshev, P. L., Imshenetskiy, V. G., Markov, A. A., Korkin, A.N., Sonin, N. Ya., Zolotarev, Ye. I., Voronoy, G. F., Kovalevskaya, S.V., Zhukovskiy, N. Ye., Steklov, V. A., Davidov, A. Yu., Bugayev, N. V., Mlodzeyevskiy, B. K., Yegorov, D. F., Yermakov, V. P., Andreyev, K. A., Sintsov, D. M., Vasil'yev, A. V., Dolbni, I. P., Chaplygine, S. A., Sokhotskiy, Yu. V., Bobynin, V. V.

Kol'man, E. Ya. (Moscow). On Certain Unsolved Problems in the History of Ancient Mathematics. 232

Mikhaylov, G. K. (Moscow). The Youth of Leonard Euler and his First Scientific Works. 232

Card 78/80

SOV/124-57-4-3837

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 4 (USSR)

AUTHOR: Kol'man, E.

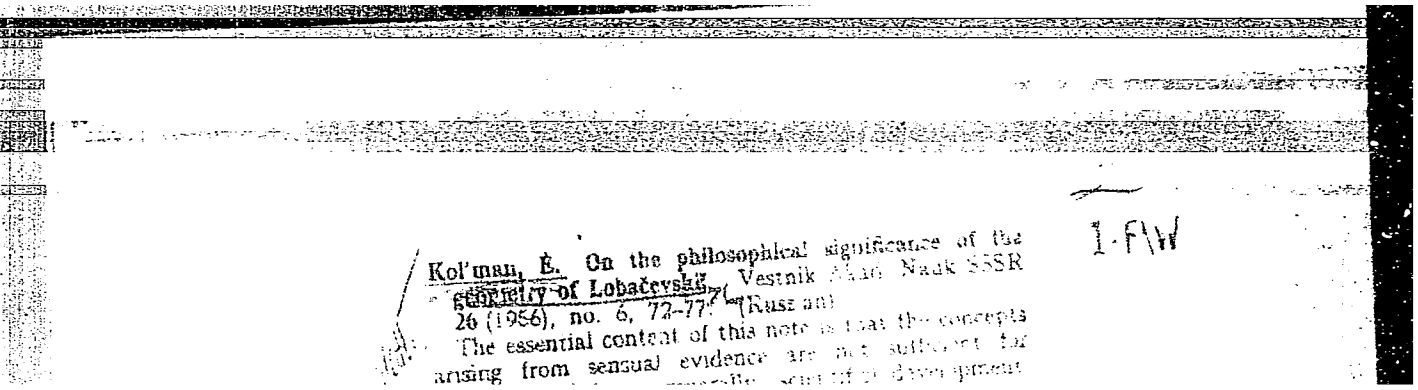
TITLE: The Life and Scientific Activity of Ruggiero Giuseppe Boscovich (1711-1787) [Zhizn' i nauchnaya deyatel'nost' Rudzhera Boshkovicha (1711-1787)]

PERIODICAL: Vopr. istorii yestestvozn. i tekhniki, 1956, Nr 2, pp 92-109

ABSTRACT: Bibliographic entry

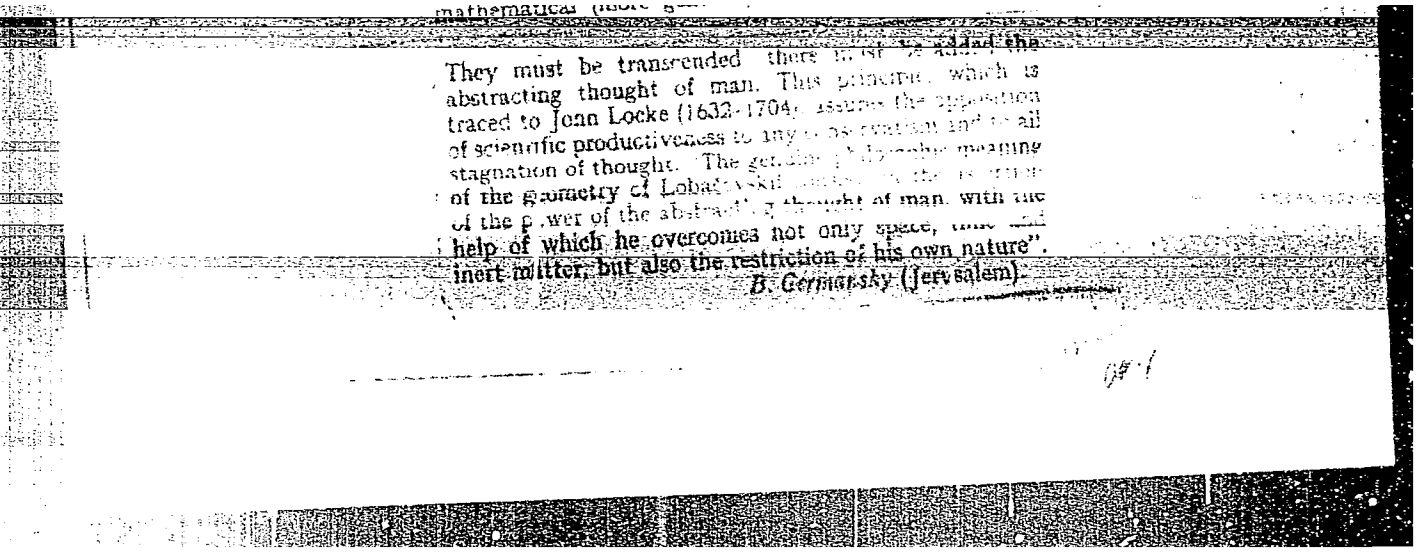
Card 1/1

Infinity in ancient Greek mathematics. Trudy Inst.Ist.est.i tekhn. 10:299-337 '56. (MLRA 9:12)
(Mathematics, Greek)



Kol'man, É. On the philosophical significance of the geometry of Lobačevskiĭ. Vestnik Akad. Nauk SSSR 26 (1956), no. 6, 72–77. (Russian)

The essential content of this note is that the concepts arising from sensual evidence are not sufficient for



mathematical [illegible]

They must be transcended [illegible] added the abstracting thought of man. This principle, which is traced to John Locke (1632-1704), assumes the opposition of scientific productiveness to any [illegible] and to all stagnation of thought. The ge[illegible] the discovery of the geometry of Loba[illegible] thought of man, with the help of which he overcomes not only space, time and inert matter, but also the restriction of his own nature".

B. Germansky (Jerusalem).

KOL'MAN, E., doktor filosofskikh nauk, professor matematiki.

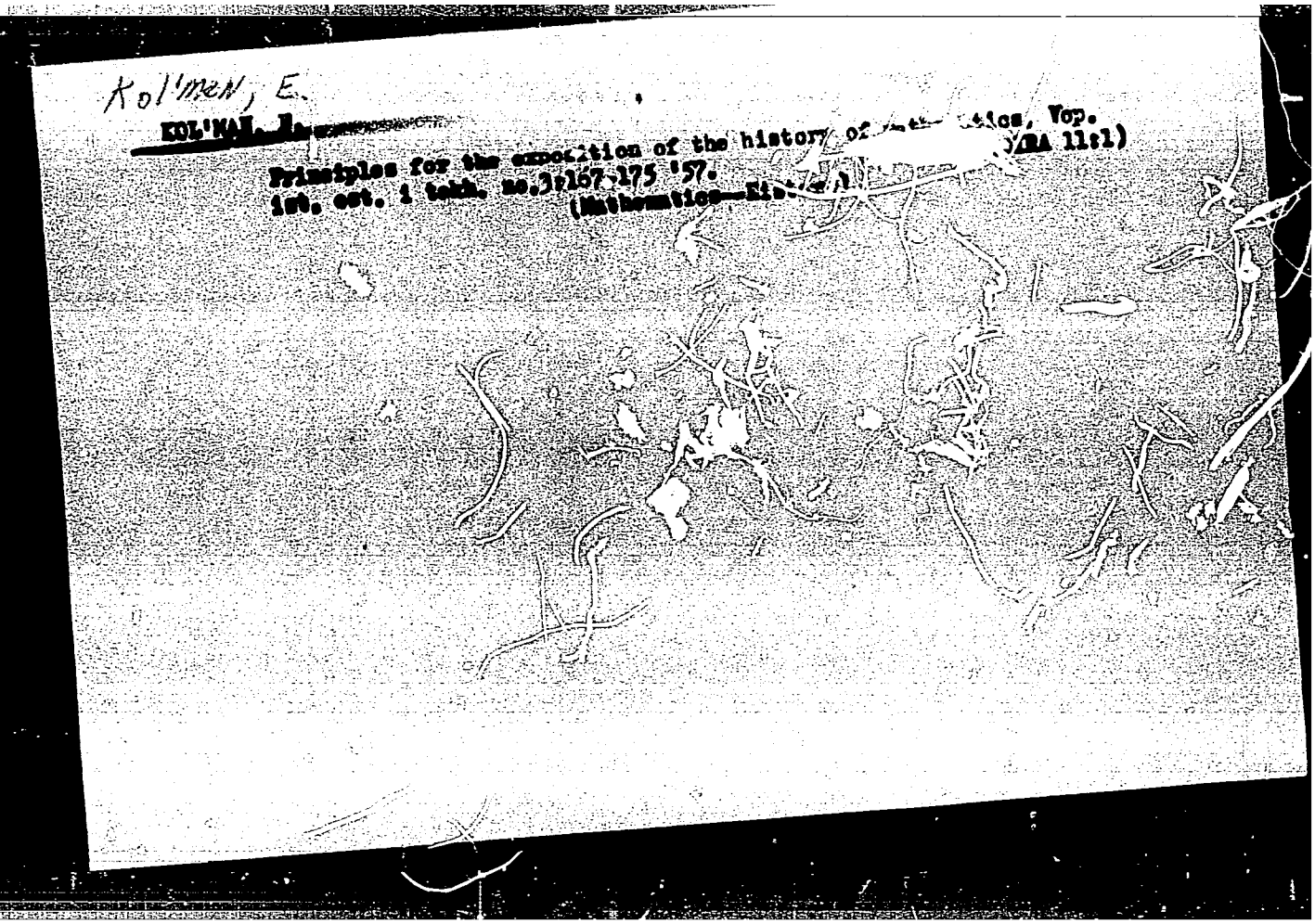
On cybernetics. Znan.sila 31 no.7:8-9 Jl '56. (MLRA 9:9)
(Cybernetics)

KOL'MAN, Ernst Iaromirovich, doktor filosofskikh nauk, professor; GARKAVENKO, F.I., redaktor; GUBIN, M.I., tekhnicheskiy redaktor

[Philosophical problems in modern physics] Filosofskie problemy sovremennoi fiziki. Moskva, Izd-vo "Znanie," 1957. 38 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.2, no.13) (MLRA 10:8)
(Physics--Philosophy)

KOLAN , E. (Prof.)

Prof. E. KOLAN wrote an article entitled A Thrust Into The Cosmos, which appeared in the Literaturnaya Gazeta, 24 Oct 57.
[redacted] Daily Review of Soviet Press, Vol. III, #254 (691), 26 Oct 57 [redacted].



Kol'man, E.

KOL'MAN, E.

Principles for the exposition of the history of [illegible], Vop. ist. est. i tekh. no.3:167-175 '57. (MIRA 11:1)
(Mathematics—History)

SOV/124-58-7-7306

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 3 (USSR)

AUTHOR: Kol'man, E.

TITLE: Euler's Contribution to the Development of Mathematics in Russia (Vklad Eylera v razvitiye matematiki v Rossii)

PERIODICAL: V sb.: Vopr. istorii yestestvozn. i tekhn. Nr 4. Moscow, AN SSSR, 1957, pp 15-25

ABSTRACT: Bibliographic entry

1. Mathematics--USSR

Card 1/1

Kol'man, E

KOL'MAN, E.

"A history of sciences" [in English] by S.F. Mason. Reviewed by E. Kol'man. Vop.ist.est. i tekh. no.5:195-200 '57. (MIRA 11:2)
(Science—History) (Mason, S.F.)

Kol'man, E.

KOL'MAN, E.

"Bohemian days before March in letters of Bolzano to F. Prihonsky (1824-1848)" [in German]. Reviewed by E. Kol'man. Vop.ist.est. i tekh. no.5:205-206 '57. (MIRA 11:2)
(Bolzano, Bernhard, 1781-1848)

KOL'MAN, E.

p. 4

16(1) PHASE I BOOK EXPLOITATION SOV/1366

Istoriko-matematicheskiye issledovaniya, vyp. 11 (Research in Mathematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 3,000 copies printed.

Eds. (Title page): Rybkin, G.F. and Yushkevich, A.P.; Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical literature.

COVERAGE: This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

Card 1/8

Research in Mathematical History (Cont.) SOV/1366

for mathematics itself and for the other sciences. There are also four articles on the history of mathematics in Czechoslovakia and Rumania, an article on the investigation of the algebraic roots of differential calculus in connection with a study of the mathematical writings of K. Marx, and an article on the work done on negative numbers by the Arabian mathematician, Abu-l-Wafa. A series of articles on various texts and documents connected with the history of mathematics, including a translation of the treatise De Configuratione Qualitatum by N. Oresme and two articles concerning it, concludes the book.

Card 2/8

KOL'MAN, E., prof.

Some theoretical problems in the history of natural science and technology and J. Bernal's work "Science in the history of the society." Vop. ist. est. i tekh. no.6:84-94 '59. (MIRA 12:6)
(Science and civilization)
(Bernal, J.)

KOL'MAN, E.

"Studies on the history of science in Spain" by J.M.Villasy Vallicrosa. Reviewed by E.Kol'man. Vop.ist.est.i tekh. no.8:167 '59. (MIRA 13:5)

(Spain--Science)

KOL'MAN, E.A.

16(1) SOV/2660

Vsesoyuznyy matematicheskiy s"yezd. 3rd, Moscow, 1956

Trudy, t. 4; kratkiye soderzhaniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Congress, Moscow, vol. 4; Summary of Sectional Reports. Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.
Reports of Foreign Scientists.
247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Ed. Bd.: G.M. Shavchenko; Editorial Board: A.A. Abramov, V.D. Bolgarskiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, G. Ye. Shilov, and A.K. Shirshov.
Ryshkov, K.A. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M. Nikol'skiy, A.M. Vasil'yev, Yu. V. Prokhorov, G. Ye. Ryabikov, P. L. Ul'yanov, V.A. Uspenskiy, V.S.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first submitted to the editorial board. In those cases where the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate topic in number theory, both Soviet and non-Soviet, cover various topics in function theory, algebra, differential and integral equations, topology, mathematical functional analysis, probability theory, computational mathematics, and the problems of mechanics and physics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Section on Computational Mathematics

Card 17/ 34

KOL'MAN, Ernest; STRUKOV, E., red.; MUKHIN, Yu., tekhn. red.

[Lenin and modern physics] Lenin i noveishaia fizika. 2. izd. Moskva, Gos.izd-vo polit.lit-ry, 1961. 156 p. (MIRA 15:4)
(Lenin, Vladimir Il'ich, 1870-1924) (Physics)

LECTURES ON THE HISTORY OF MATHEMATICS

AUTHOR: Kol'man, E., Doctor of Philosophical Sciences 30-58-5-19/36

TITLE: Marx and the Natural Sciences (Marks i yestestvoznaniye)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 5, pp. 78-87 (USSR)

ABSTRACT: Under the conditions of great achievements in the field of natural sciences Karl Marx worked on the philosophical generalization of the discoveries of natural sciences and together with Friedrich Engels on the materialistic dialectic of nature. Marx followed the development of natural sciences and in the last decade of his life he occupied himself with mathematics. In his works he stated the interrelation between manufacture, natural sciences and philosophy. He thought that the natural sciences had practically penetrated into human life by means of industry, that they had transformed it and prepared the liberation of mankind, although in the beginning they had led to a de-humanization of man. His work "Kapital" contains many ideas on different problems of natural science, engineering, as well as their history. He utilized their results for the foundation of the revolutionary economic principles developed by him. He was interested in problems of the practical technical use of natural sciences due to their great importance for

Card 1/2

AUTHOR: Kol'man, E., Doctor of Philosophical Sciences

TITLE: For Materialism in Science (Za materializm v nauke) Irreconcilable Positions (Neprimirimyye pozitsii)

PERIODICAL: Nauka i zhizn', 1958, Nr 8, pp 10-15 and 58 (USSR)

ABSTRACT: All sciences, including natural science, deal with general conceptions and they belong not only to a special, particular science, but also to philosophy which works out a world outlook and methods of cognition, and studies the general laws of the development of nature, society and human thinking. However, the idealistic and metaphysical ideology prevailing among the capitalistic society impedes the proper generalization of the facts of natural science. The philosophical conclusions of scientists of bourgeois countries are in the majority of cases fallacious and anti-scientific. This is due to the ideological struggle between materialism and idealism. Being unable to comprehend new facts, bourgeois scientists often arrive at idealistic and sometimes at religious and mystical conclusions. In fact, as shown by Lenin, the old mechanical world outlook has been succeeded by the world outlook of the

Card 1/2

Card 2/2

KOL'MAN, E. (Doctor of Philosophical Science)

"On the Philosophical and Social Problems of Cybernetics."

Filosofskiye voprosy kibernetiki (Philosophical Problems of Cybernetics), Publishing House of Socio-Economic Literature, Moscow, 1961 392 p.

KOL'MAN, Ernest; YUSHKEVICH, A.P.; ROZENFEL'D, B.A., otv. red.; UGAROVA, N.A., red.; KOPYLOVA, A.N., red.; BRUDNO, K.F., tekhn. red.

[Mathematics before the Renaissance] Matematika do epokhi Vozrozhdeniia. Moskva, Gos.izd-vo fiziko-matem. lit-ry. Book 1. [History of mathematics in antiquity] Istoriia matematiki v drevnosti. 1961. 235 p. (MIRA 15:2)
(Mathematics, Ancient)

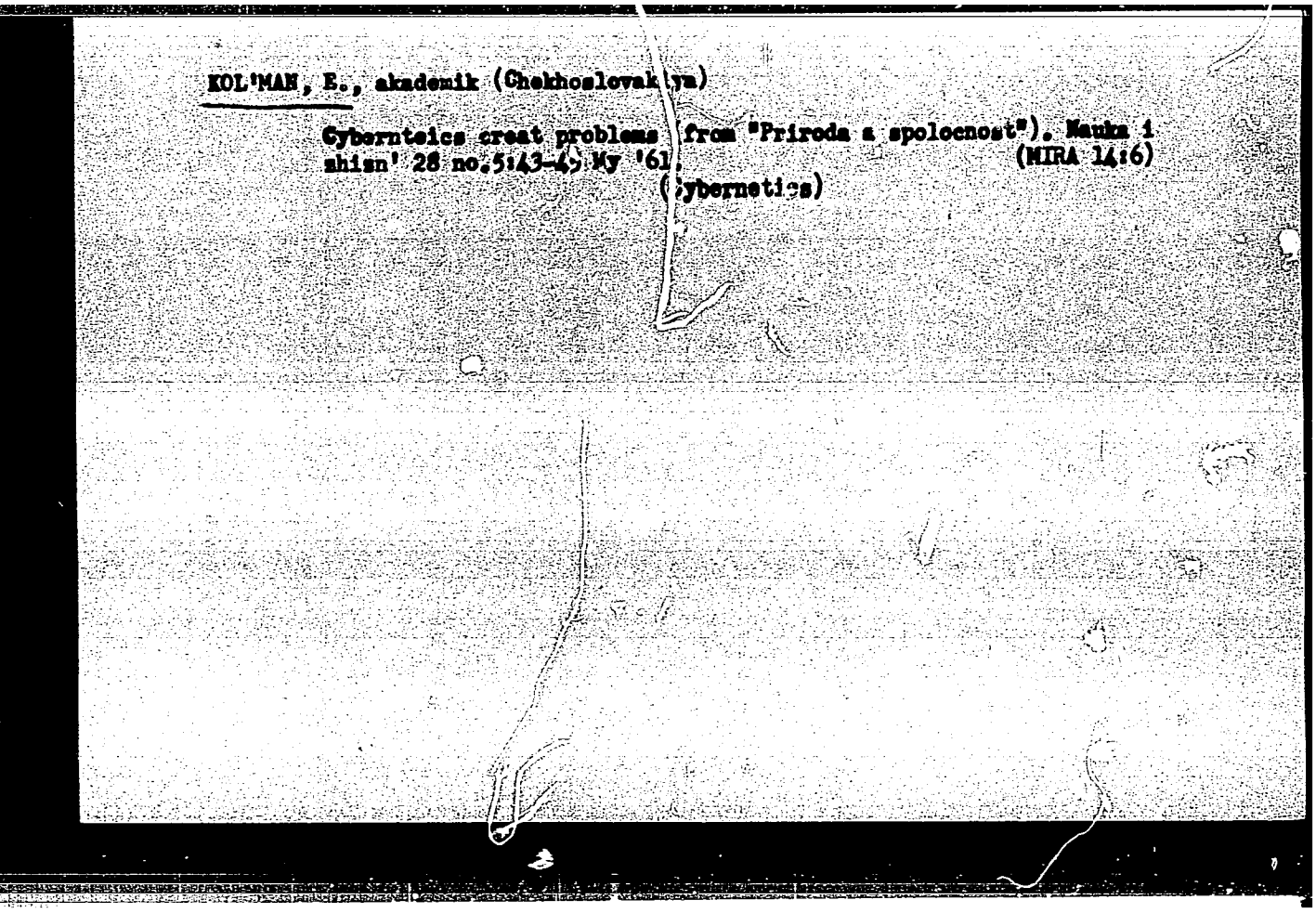
IL'IN, V.A., red.; KOLBANOVSKIY, V.N., red.; KOL'MAN, E., red.; VIKTOROVA, V., red.; CHEREMNYKH, I., mladshiy red.; MOSKVINA, R., tekhn. red.

[Philosophical problems on cybernetics] Filosofskie voprosy kibernetiki. Moskva, zd-vo sotsial'no-ekon. lit-ry, 1961. 391 p. (MIRA 14:6)

(Cybernetics)

KOL'MAN, E.; YUSHKEVICH, Adol'f Pavlovich; ROZENFEL'D, B.A., otv. red.; UGAROVA, N.A., red.; POLOVINKIN, S.M., red.; AKHLAMOV, S.N., tekhn.red.

[Mathematics before the Renaissance] Matematika do epokhi Vozrozhdeniia. Moskva, Gos. izd-vo fiziko-matem. lit-ry. Book 2. [History of mathematics in the Middle Ages] Istoriia matematiki v Srednie veka. 1961. 448 p. (MIRA 15:3)
(Mathematics)



KOL'MAN, E., akademik (Chekhoslovakiya)

Cybernetics great problems (from "Priroda a spolecnost"). Nauka i zhizn' 28 no.5:43-45 My '61. (MIRA 14:6)
(Cybernetics)

KOL'MAN, E., akademik

Discussing the problem of cybernetics (continued). Tekh.mol. 30 no.1:24-26 '62. (MIRA 15:2)

1. Direktor Instituta filosofii Akademii nauk Chekhoslovatskoy Sotsialisticheskoy Respubliki, Chekhoslovakiya.
(Cybernetics)

KOL'MAN, E., prof.

Finiteness and infinity in the universe. Priroda 53 no. 11: 34-44 '64. (MIRA 18:1)

1. Deystvitel'nyy chlen Chekhoslovatskoy Akademii nauk.

L 00741-67 EWI(d)/EWI(m)/EWP(w)/EWP(v)/EWP(k) LIP(c) WW/EM/GD
ACC NR: AT6020395 SOURCE CODE: UR/0000/65/000/000/0049/0060

AUTHOR: Kol'man, E. R. (Engineer)

31
B+1

ORG: none

TITLE: Axisymmetric vibration forms for a thin conical shell

SOURCE: Raschety na prochnost', zhestkost', ustoychivost' i kolebaniya (Calculations of strength, rigidity, stability, and vibrations). Moscow, Izd-vo Mashinostroyeniye, 1965, 49-60

TOPIC TAGS: shell theory, conic shell, partial differential equation, Bessel function

ABSTRACT: The axisymmetric vibrations of a conical shell are investigated. The governing partial differential equations of motion for the shell are reduced to ordinary differential equations, using separation of variables for the displacements u, v, w or,

$$u(\alpha, t) = U(\alpha)\cos kt;$$
$$v(\alpha, t) = V(\alpha)\cos kt;$$
$$w(\alpha, t) = W(\alpha)\cos kt.$$

The equation for V is shown to be integrable in closed form, subject to boundary conditions V(0) = 0, V(1) = 0. The remaining two equations are solved by a finite difference scheme for a conical shell hinged at the apex and at the base (see Fig. 1).

Card 1/2

L 00741-67

ACC NR: AT6020395

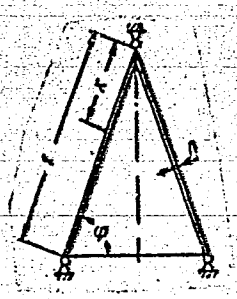


Fig. 1.

A numerical solution is obtained for the axisymmetric oscillations of another shell, hinged at the apex and fixed at the base. The results are given in the form of displacement curves and tables. Orig. art. has: 24 equations, 11 figures, and 2 tables.

SUB CODE: 20/ SUBM DATE: 18Sep65/ ORIG REF: 006

Card 2/2

L 01078-67 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k) IJP(c) WW/EM

ACC NR: AP6026339 SOURCE CODE: UR/0145/66/000/003/0178/0183

AUTHOR: Kol'man, E. R. (Instructor)

ORG: None

TITLE: Effect of boundary conditions on the frequency and form of free oscillations of a conical shell

SOURCE: IVUZ. Mashinostroyeniye, no. 3, 1966, 178-183

TOPIC TAGS: shell theory, free oscillation, conic shell structure, boundary value problem

ABSTRACT: Numerical solutions are given for complete differential equations describing oscillations in a thin-shell frustum of a cone assuming the following conditions of edge support: 1. both edges of the shell absolutely fixed, i. e. displacements and angle of rotation of the normal to the generatrix equal to zero; 2. stationary hinged support of the smaller edge of the shell and absolutely fixed larger edge; 3. stationary hinged support of both edges; 4. stationary hinged support of the smaller edge of the shell and hinged support of the larger edge with freedom of motion in the direction of the generatrix; 5. stationary hinged support of the smaller edge of the shell and hinged support of the upper edge with freedom of motion both in the direction of the generatrix and in the peripheral direction; 6. the smaller edge of the shell

Card 1/2 UDC: 621.01

01078-67

ACC NR: AP6026339

absolutely fixed and the larger edge free. The resultant differential equations and boundary conditions are given in finite differences with the integration section broken down into 30 equal intervals. This gives a system of 87 linear homogeneous algebraic equations with a codiagonal matrix. Iteration of the reciprocal matrix was used for finding the lowest eigenvalue of the matrix which corresponds to the lowest frequency of free oscillations. The BESM-2M computer was used for the calculations. The results show that the minimum frequency of free oscillations of a conical shell is considerably dependent on boundary conditions for the tangential components of displacement. The article was presented for publication by Professor N. D. Tarabasov, Doctor of technical sciences. Orig. art. has: 4 figures, 2 tables, 8 formulas.

SUB CODE: 20/ SUBM DATE: 13Sep65/ ORIG REF: 004

Card 2/2 vlr