TARTAKOVSKIY, B. D. and RYBAK, S. A.

"On vibration of layered paltes with losses"

report submitted for the 4th Intl. Congress of Acoustics, Copenhagen, Denmark, 21-28 Aug 1962.

Acoustical Inst. of the Acad. of Sci. USSR, Moscow.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

RYBAK, S.A.; TARTAKOVSKIY, B.D.

Some applications of a transitive matrix to the theory of plane waves in a system of elastic layers. Akust.zhur. 8 no.1:119-123 '62. (MIRA 15:4)

1. Akusticheskiy institut AN SSSR, Moskva.
(Matrices) (Sound waves)

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S/046/62/008/001/018/018
B125/B104

AUTHOR: Tartakovskiy, B. D.

TITLE: V. All-Union Acoustics Conference

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 1, 1962, 141-145

TEXT: More than 800 scientists and engineers from 41 Soviet towns (about 350 from Kiyev), and 244 institutes, universities and factories attended the V. Vsesoyuznaya akusticheskaya konferentsiya (V. All-Union Acoustics Conference) organized from November 27 to December 2, 1961 in Kiyev by the Komissiya po Akustike (Acoustics Commission), Akustricheskiy institut Akademii nauk SSSR (Acoustics Institute of the Academy of Sciences USSR), Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev "Order of Lenin" Polytechnic Institute) and the Ukrainskoye respublikanskoye pravleniye NTO radiotekhniki i elektrozvyazi im. A. S. Popova (Ukraine Republic Administration of NTO Radiotechnics and Electrical Communication imeni A. S. Popov). More than 180 lectures were delivered in the two plenary sessions and in the 8 special sessions (1. nonlinear acoustics, 2. wave diffraction, 3. propagation of sound in inhomogenous media, 4. architectural

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and building acoustics, 5. ultrasonics, 6. acoustic measurements, 7. speech and physiological acoustics, 8. noises and vibrations). According to M. I. Karnovskiy, Professor of Kiyev Polytechnic Institute and chairman of the organizing committee, the purpose of the conference was to establish ways for further developing Soviet acoustics. Professor S. N. Rzhevkin gave a historical survey of the development of acoustics in the USSR. From 1950 to 1955 30 lectures on acoustics were delivered, at the IV All-Union Acoustics Conference (May 26 - June 4, 1958) 175 already. L. A. Chernov gave a survey of the progress made in acoustics since the last conference. Interest in statistical problems is increasing. At the Simpozium po difraktsii (Symposion on Diffraction) in September 1961 both exact and approximation methods for the solution of diffraction problems were demonstrated. Measures to combat noise and vibration are meeting with success. In the ultrasonic range powers of up to 100 kw/cm^2 and super-high frequencies were attained. Kybernetics and information theory have been widely applied in physiological and psychological acoustics. At the first plenary session L. A. Chistovich discussed the discernment of speech by man. I. Ye. Goron discussed the experimental study of various quality limitations of a two-channel system. L. D. Rozenberg and M. G.

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S/046/62/008/001/015/016
B125/B104

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Sirotyuk discussed an ultrasonic wave concentrator for several hundreds of kw/cm^2 developed at the Acoustics Institute. I. A. Viktorov studied theoretically the surface waves and their propagation. N. A. Dubrovskiy dealt with the subjective observation of signals over a noise background. The 50 lectures of the session on vibrations and noises dealt mainly with theoretical original papers on the propagation of vibrations in the elastic structures of technical buildings (L. A. Molotkov, S. A. Rybak, V. I. Zaborov, A. S. Nikiforov, B. D. Tartakovskiy et al.) and the experimental studies of the propagation of elastic vibrations in construction outside built-up areas (A. K. Novikov, S. G. Gershman, A. K. Yefimov, M. D. Genkin, V. B. Chernyshev, O. G. Shvilkina, S. Ya. Novozhilov, V. A. Zverev et al.). Ye. Ya. Yudin, P. Ye. Astaf'yev, I. N. Pisarevskiy, V. A. Zverev, V. E. Frimerg, M. M. Efrussi, M. S. Antsyferov, V. P. Kuznetsov, B. G. Zavernyayev and other authors discussed multichannel generators and measuring instruments, instruments for directly determining the vibroacoustic properties of technical buildings etc. I. I. Klyukin, Ye. Ya. Yudin, A. G. Munin, E. N. Naumenko, N. N. Popova, S. A. Bershadskiy, V. F. Lyusov studied theoretically and experimentally new and improved classical methods of reducing noises and vibrations. Yu. A.

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Kashtalyan, G. S. Rosin, N. I. Naumkina, L. I. Trepelkova, A. S. Trakhter, M. I. Palley, M. A. Tulaykova et al. discussed the dynamic properties of sound- and vibrations-isolating and -absorbing materials and constructions, Yu. M. Yelizarov, Kh. V. Storoshchuk, V. I. Pal'gov, G. L. Osipov, A. A. Arkad'yevskiy, O. M. Rozen and other authors spoke about noises in factories and means of communication, S. N. Rzhevkin, K. M. Ivanov-Shits, K. A. Velizhanina, G. S. Sharov, V. I. Zaborov, E. N. Avferonko, N. N. Bogolepov, I. V. Lebedeva, G. A. Gol'dberg and V. M. Lebedev spoke about measurements of diffractive reflections of sound, V. S. Nemanov, M. I. Karnovskiy, V. A. Geranin, G. A. Ball, V. S. Gorbenko et al. spoke about the experimental study of statistical signals, A. V. Rimskiy-Korsakov, D. V. Bazhenov, E. P. Isayenko, Yu. A. Kravchenko, A. F. Osadchenko, A. N. Mikikechko et al. spoke about the measurements of the frequencies of complex vibrational systems, A. N. Golenkov, V. M. Bovsheverov, M. V. Laufer, G. S. Rosin, V. V. Tyutekin, R. N. Viktorova, et al. spoke about the calibration of acoustic measuring instruments etc, R. V. Dombrovskiy, A. N. Rivin, I. A. Bazhina, I. A. Lapuk, L. N. Ryabchikov et al. spoke about the measuring methods in building acoustics, V. A. Zverev, A. I. Kalachev, Ye. F. Orlov, L. A. Zhestyannikov, I. K. Spirodonova spoke about

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measurements with modulated sound waves, M. I. Karnovskiy, A. A. Yur'yev, V. Ye. Ivanov, L. A. Yakovlev, B. A. Finagin, I. N. Kanevskiy, V. P. Kurkin et al. spoke about the theory and the calculation of ultrasonic transformers, I. G. Polotskiy, V. F. Nozdrev, S. A. Neduzhiy et al. spoke about the effect of ultrasonics on various substances, A. A. Galkin, M. Ye. Arkhangel'skiy, V. F. Kazantsev, Yu. L. Tissenbaum, L. O. Makarov et al. spoke about the effect of ultrasonics on alloys, pure metals, plastic materials etc., L. D. Rozenberg, Yu. Ya. Borisov, O. K. Eknadiosyants, M. V. Varlamov et al. spoke about the coagulation of aerosols by sound, drying and spraying by means of ultrasonics, V. L. Vlasov, V. F. Nozdrev, A. A. Berdyyev, N. B. Lezhnev, Z. L. Khodov, O. A. Kapustina, V. F. Yakovlev, P. P. Perepechko et al. spoke about the investigation of organic substances etc. by ultrasonic methods, L. G. Merkulov, P. A. Bezuglyy, I. G. Polotskiy, V. F. Taborov, M. S. Antsyferov et al. spoke about the propagation and absorption of ultrasonic and hypersonic waves in crystals, superconductors, copper monocrystals, etc., L. R. Zinder, L. V. Bondarko, L. A. Verbitskaya, G. I. Tsemel', N. V. Sukhanova, V. A. Zverev, Ye. F. Orlov et al. spoke about the objective properties of speaking, P. O. Makarov, S. N. Col'dburt et al. spoke about

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the connection between subjective perceptions and objective properties of speaking, L. L. Myasnikov the modelling of the sense of touch by superficial ultrasonic waves, Ye. A. Rodionova, O. V. Verzilova, A. M. Maruseva, A. Ya. Vinnikov, L. K. Titova et al. the theory of hearing, A. L. Polyakova, S. I. Soluyan, R. V. Khokhlov, G. D. Mikhaylov, K. A. Naugol'nykh et al. the propagation of nonlinear vibrations, Z. A. Gol'dberg, K. A. Naugol'nykh, G. A. Ostroumov, P. N. Kubanskiy nonlinear effects in intense sound waves, Yu. L. Gazaryan, A. D. Lapin, A. N. Barkhatov et al. regular propagation in various waveguides, layers, and channels, V. A. Zverev, M. A. Kallistratova, M. F. Bakhareva, E. A. Blyakhman, Yu. A. Ryzhov, B. F. Kur'yanov et al. the propagation of sound in statistically inhomogeneous media, I. A. Molotkov, V. S. Buldyrev, A. I. Lanin, I. N. Yermolov, V. A. Borovikov, L. M. Lyamshev, A. A. Tuzhilin, B. Z. Katsenelenbaum, R. P. Starovoytov et al. diffraction by various obstacles, V. Yu. Zavadskiy, V. N. Krasil'nikov, Ye. P. Masterov et al. the propagation of various waves in elastic inhomogeneous media and plates and finally G. D. Malyuzhinets, V. N. Krasil'nikov, Yu. A. Ukhanov, V. Yu. Zavadskiy, M. P. Sakharova, N. S. Smirnov, et al. discussed new theoretical methods of studying diffraction. The organizing committee

S/046/62/008/001/018/018
B125/B104

W All-Union Acoustics Conference

(chairman M. I. Karnovskiy, deputy chairman L. A. Chernov, and O. M. Gaplichuk, scientific secretary G. V. Glekin) is thanked for organizing the conference.

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24.1600

S/046/62/008/002/006/016
B104/B138

AUTHORS: Maslov, V. P., Tartakovskiy, B. D.

TITLE: Propagation of flexural vibrations in several inhomogeneous rods

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 2, 1962, 194 - 198

TEXT: The problem is the propagation of transverse waves in a series of rods, connected by butt joints. Each rod satisfies the conditions of pure bending and has arbitrary elasticity parameters and cross section. No rod is less than one and a half times the lengths of a transverse wave. Using this condition, the coefficients of reflection and transmission of the transverse wave potentials through n intermediate rods can be calculated with the aid of recurrence formulas:

$$R_{0,n+1} = \frac{R_{0n} + (D_{0n}D_{n0} - R_{0n}R_{n0})R_{n,n+1}e^{i2\varphi_n}}{1 - R_{n0}R_{n,n+1}e^{i2\varphi_n}}, \quad (1) - (2).$$

$$D_{0,n+1} = \frac{D_{0n}D_{n,n+1}e^{i\varphi_n}}{1 - R_{n0}R_{n,n+1}e^{i2\varphi_n}},$$

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Propagation of flexural vibrations...

The transmission and reflection coefficients of the entire system of rods can be calculated from

$$R_{0,n+1} = Q_n / S_n, \qquad D_{0,n+1} = N_n / S_n, \qquad (8) - (9)$$

where

$$S_n = 1 - \sum_{q=1}^{n}\sum_{p=1}^{q} P_{pq} + \sum_{s=1}^{n-2}\sum_{r=1}^{s}\sum_{q=1}^{r}\sum_{p=1}^{q} P_{r+1,\,s+2}P_{pq} -$$
$$- \sum_{u=1}^{n-4}\sum_{t=1}^{u}\sum_{s=1}^{t}\sum_{r=1}^{s}\sum_{q=1}^{r}\sum_{p=1}^{q} P_{t+1,\,u+4}P_{r+2,\,s+3}P_{pq} + \ldots,$$

$$Q_n = \sum_{p=1}^{n+1} T_{p-1} - \sum_{r=1}^{n-1}\sum_{q=1}^{r}\sum_{p=1}^{q} P_{q+1,\,r+1}T_{p-1} + \qquad (10) - (12)$$
$$+ \sum_{w=1}^{n-3}\sum_{u=1}^{w}\sum_{r=1}^{u}\sum_{q=1}^{r}\sum_{p=1}^{q} P_{u+2,\,w+3}P_{q+1,\,r+1}T_{p-1} - \ldots,$$

$$N_n = \prod_{i=0}^{n} D_{i,i+1} e^{i\sum_{k=1}^{n}\varphi_k}.$$

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Propagation of flexural vibrations...

and выражениях (10) — (12) приняты сокращения:

$$P_{pq} = R_{p,\,p+1}R_{q,\,q-1}e^{i2\sum_{k=1}^{q}\varphi_k}, \quad T_p = R_{p,\,p+1}e^{i2\sum_{k=1}^{p}\varphi_k}.$$

Despite the above restrictions, results obtained from these formulas for rods only half the wavelength, deviate from the experimental results by only 10%.

ASSOCIATION: Akusticheskiy institut AN SSSR Moscow (Acoustics Institute AS USSR, Moscow)

SUBMITTED: April 26, 1961

3753

S/046/62/008/002/012/016
B104/B138

24.1700
11.6000

AUTHOR: Tartakovskiy, B. D.

TITLE: Amplification factor of a solid sound lens with losses

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 2, 1962, 228 - 232

TEXT: The maximum amplification factor of a solid sound lens depends on the material and shape of the lens. The frequency characteristics are compared, for solid sound lenses made from materials with attenuation factors linearly or quadratically dependent on frequency. Up to 10^5 cps plastics can be used as lens materials. In the range of flaw-detection frequencies (10^6 - 10^7 cps) aluminum and its alloys are better. The usability of the material can be characterized by the maximum possible amplification factor. For materials for which the losses are proportional to frequency, this amplification coefficient is

$$K = \frac{8\pi}{\rho_0 c_0}\left[\frac{1}{N}\frac{1-n}{n}\frac{\rho}{\left(1+\frac{\rho}{\rho_0}\frac{1}{n}\right)^2}\right], \quad (12);$$

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for materials whose losses depend quadratically on frequency it is:

$$K = \frac{5{,}1\pi\sqrt{l}}{\rho_0 c_0}\left[\frac{1}{\sqrt{N}}\,\frac{1-n}{n}\,\frac{\rho}{\left(1+\frac{\rho}{\rho_0}\,\frac{1}{n}\right)^2}\right]. \quad (13).$$

The expressions in square brackets describe the quality of the material. The amplification factor at a given frequency is

$$K = \frac{2\pi}{c_0}\,\frac{4\frac{\rho c_d}{\rho_0 c_0}(1-n)}{\left(1+\frac{\rho c_d}{\rho_0 c_0}\right)^2}\left[\frac{1-e^{-\gamma l}}{\gamma}\right], \quad (14).$$

The expression in the brackets describes the usability of the material at a given frequency. There are 3 figures.

ASSOCIATION: Akusticheskiy institut AN SSSR Moscow (Acoustics Institute AS USSR, Mowcow)

SUBMITTED: January 25, 1961

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TARTAKOVSKIY, B.D.

Aberration characteristics of sound lenses. Akust.zhur. 8 no.3:350-357 '62. (MIRA 15:11)

1. Akusticheskiy institut AN SSSR, Moskva.
(Optics, Geometrical) (Sound lenses)

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S/053/62/078/004/004/004
B102/B186

AUTHOR: Tartakovskiy, B. D.

TITLE: Vtoroy vsesoyuznyy simpozium po difraktsii voln (Second All-Union Symposium on Wave Diffraction)

PERIODICAL: Uspekhi fizicheskikh nauk, v. 78, no. 4, 1962, 701-721

TEXT: The symposium was called by the Komissiya po akustike Akademii nauk SSSR (Commission on Acoustics of the Academy of Sciences USSR) and the Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Radiophysics at the Gor'kiy State University imeni N. I. Lobachevskiy) and was held from June 4 to 9, 1962, in Gor'kiy. It was attended by 314 scientists, among them the Academicians V. A. Fok and V. D. Kupradze. The opening address was read by Professor G.D.Malyuzhinets. More than 120 lectures were delivered, the most important of which are here briefly discussed: Some problems of wave diffraction and propagation (G. I. Makarov); Physical theory of diffraction (P. Ya. Ufimtsev); Approximate solution of certain diffraction problems (V. D. Kupradze); Investigation of the non-analytic parts of the wave field in nonstationary

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Vtoroy vsesoyuznyy simpozium...

diffraction problems (V. S. Buldyrev, I. A. Molotkov); Directivity diagrams for certain types of antennas (L. D. Bakhrakh, Ya. N. Fel'd); Transverse diffusion of short waves on a convex cylinder (V. A. Fok, G.D.Malyuzhinets, L. A. Vaynshteyn); Electromagnetic field structure of real antennas (G. N. Krylov); Wiener-Hopf-Fok-type integral equations applied to diffraction problems (V. I. Talanov); Theory of nuclear diffraction (A. G. Sitenko); Diffraction of a plane wave on an infinite cone (I. G. Yakushkin); Correlation between axisymmetric and cylindrical solutions of electromagnetic-wave polarization problems in the case of equal section profiles of the bodies considered (B. Ye. Kinber, A. A. Fedorov); Local method of acoustic-wave field calculation (B. Ya. Gel'chinskiy); Exact mathematical justification of two-dimensional approximation in geometrical optics (V. M. Babich); Asymptotic solution to the problem of diffraction of short-electromagnetic waves on an ideally conducting surface (Yu. G. Gukasov, I. V. Sukharevskiy); Separation of variables in the problen of diffraction on an arbitrarily shaped body (R. G. Barantsev); Calculation of the main components of the wave field (N. S. Smirnov); Mathematical problems of diffraction (D. Z. Avazashvili); Uniqueness theorems in boundary-value problems of diffraction theory (I. A. Urusovskiy);

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Sommerfeld conditions for elliptic operators of arbitrary order (O. I. Panich, B. R. Vaynberg); Integral equations in the boundary-value problem of plane-wave diffraction (V. A. Afanas'yev); Reflection of acoustic waves from smooth surfaces (A. F. Filippov); Motion of a rigid band induced by the momentum of a wave (L. M. Flitman); Spatial diffraction on an infinite prism (V. A. Borovikov); Formation of unstabilized waves in a rotating basin (S. S. Voyt); Nonstationary wave field excited between two elastic semispaces (P. V. Krauklis); Diffraction of ship waves (L. N. Sretenskiy); Stopping of electromagnetic shock waves in ferrite-lines waveguides (G. I. Freydman); Wave diffraction around a half-submerged elliptic cylinder (S. M. Travinin); Behavior of ship waves below an uneven periodic bottom (M. G. Sukharev); Electromagnetic waves in an infinite plane waveguide (V. V. Martsafey); Determination of the velocity field of laminar air flow (I. G. Petritskaya); Diffraction of electromagnetic waves on an ideally conducting disc (M. G. Belkina, Ye. A. Ivanov); Diffraction of plane waves on a moving tore with elliptic cross section (P. I. Tsoy); Resistance of radiation from a Hertzian dipole placed near an ideally conducting paraboloid or revolution (I. N. Korbanskiy); Electrodynamics of ideally conducting bodies with complex configuration (N. A. Yablochkin); Boundary-

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Vtoroy vsesoyuznyy simpozium...

value problem of diffusion on a wedge (G. D. Malyuzhinets, G. V. Vinel'); Diffraction of spherical electromagnetic waves in a wedge-shaped corner (A. A. Tuzhilin, R. P. Starovoytova, M. S. Bobrovnikov); Diagrams of radiation sources placed on the surface of an ideally conducting infinite wedge (L. N. Lemanskiy, L. N. Zakhar'yev); Diffraction of acoustic waves in a liquid semispace on two elastic plates on its surface (D. P. Kouzov); Physical theory of wave diffraction on bodies with cracks (L. A. Cherches); Diffraction on the open end of a plane sectorial loudspeaker (B.Ye.Kinber); Waveguides with mirror phase converters (N. G. Bondarenko, V. I. Talanov); Integral equations of first kind with regular kernel for harmonics of surface current of a body of revolution (V. V. Kravtsov); Wave diffraction and scattering from spherical bodies (Z. A. Yanson, V. S. Buldyrev, G. I. Petrashen', O. A. Germogenova, G. V. Rozenberg, Yu. A. Yerukhimovich, Yu. V. Pimenov, D. S. Chernavskiy); Numerical methods for solving problems of wave diffraction and propagation (Ye. N. Vasil'yev, A. R. Seregina, N. N. Govorun, D. M. Sazonov, A. F. Chaplin); Wave propagation in laminar media (V. Yu. Zavadskiy, Ya. I. Sekerzh-Zen'kovich, L. V. Iogansen); Propagation of elastic waves in a semi-infinite liquid bounded by an elastic plane plate (V. N. Krasil'nikov); 1-f vibrations of an elastic layer (L. A. Molotkova); Diffraction on periodic wave-shaped surfaces (A.D.Lapin.

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G. V. Poddubnyy, Yu. N. Cherkashin, V. I. Aksenov); waveguide problems (L. A. Vaynshteyn, A. S. Il'inskiy, A. G. Sveshnikov, N. P. Kerzhentseva); Simulation of sound propagation (A. I. Barkhatov); diffraction of electromagnetic waves in radioscopy (A. D. Petrovskiy); Problems of wave-propagation simulation (G. P. Prudkovskiy, G. P. Grudinskaya, Yu. K. Kalinin, Ya. S. Rodionov, O. G. Shamin); Propagation of radiowaves along the Earth's surface (V. N. Troitskiy); VHF wave diffraction on mountains (S. A. Amanov); Choice of optimum impedance in wave propagation problems (G. N. Krylov, A. D. Petrovskiy); Lattice electrodynamics (L. A. Vaynshteyn); Diffraction of electromagnetic waves on a lattice (V. V. Malin, L. Levin); Electromagnetic wave diffraction on lattices (O. A. Tret'yakov, D. V. Khoroshun, V. P. Shestopalov, A. I. Adonina, V. P. Shestopalov, S. A. Masalov, Ye. N. Podol'skiy, I. Ye. Tarapov); Wave propagation and diffraction in plasma (G. I. Makarov, V. V. Zheleznyakov, Ye. Ya. Zlotnik, N. A. Kuz'min, M. Ye. Gertsenshteyn, V. I. Pustovoyt, N. G. Denisov, L. S. Dolin); Reception of fluctuating radiation (N. G. Denisov); Diffraction of modulated waves on random inhomogeneities (V. A. Zverev); Interaction between electromagnetic waves and charged-particle clouds (V. B. Gil'denburg, A. V. Gurevich, M. D. Khaskind, Yu. K. Kalinin, Yu. S. Sayasov); Reflection and refraction

of electromagnetic waves in non-uniform plasma (V. B. Gil'denburg, I. G. Kondrat'yev); Emission of electromagnetic waves (V. Ya. Eydman, G. N. Krylov, B. M. Bolotovskiy, V. P. Dokuchayev, Yu. P. Verbin); Diffraction from gyrotropic bodies (Yu. V. Vaysleyb, A. T. Fialkovskiy, G. I. Freydman, V. A. Permyakov); Reflection of electromagnetic waves from randomly uneven surfaces (V. I. Mikhaylov, R. G. Barantsev, L. M. Yurkova, I. N. Tamoykina, E. P. Gulin). The next (third) symposium will be held in May 1964 at Tbilisi.

S/046/63/009/001/012/026
B104/B186

AUTHORS: Rybak, S. A., Tartakovskiy, B. D.

TITLE: On the oscillations of thin plates

PERIODICAL: Akusticheskiy zhurnal, v. 9, no. 1, 1963, 66 - 71

TEXT: Making use of the exact solutions of the oscillation problem of a plane elastic layer, an attempt is made to find equations of symmetric and antisymmetric oscillations of thin plates in arbitrary approximation according to kh without additional hypothesis. The equations

$$(\hat{A}_1\hat{B}_1 - \hat{C}_1\hat{D}_1)U_{z0} = (\hat{A}_1 - \hat{C}_1)\frac{P_1 - P_2}{2(\lambda+2\mu)} - (B_1 - D_1)\frac{\nabla_r(\tau_1+\tau_2)}{2\mu}, \quad (5)$$

$$\hat{A}_1 = (\Delta_r + \hat{M}_1)\cos_1; \quad \hat{B}_1 = \left(-\hat{M}_1^{1/2} + \frac{\lambda}{\lambda+2\mu}\Delta_r\hat{M}_1^{-1/2}\right)\sin_1,$$

$$\hat{C}_1 = 2\Delta_r\cos_1; \quad \hat{D}_1 = -\frac{2\mu}{\lambda+2\mu}\hat{M}_1^{1/2}\sin_1,$$

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On the oscillations of thin plates

$$(\hat{\lambda}_2\hat{B}_2 - \hat{C}_2\hat{D}_2)\,U_{r0} = -(\hat{\lambda}_2 - \hat{C}_2)\frac{\nabla_r(P_1+P_2)}{2(\lambda+2\mu)} + (\hat{B}_2 - \hat{D}_2)\frac{\tau_1-\tau_2}{2\mu}, \qquad (6)$$

$$\hat{A}_2 = -(\hat{M}_l^{1/2} + \mathrm{Grad\ Div}\,\hat{M}_l^{-1/2})\sin_l; \quad \hat{B}_2 = \left(-\hat{M}_l + \frac{\lambda}{\lambda+2\mu}\Delta_r\right)\cos_l,$$

$$\hat{C}_2 = -2\hat{M}_l^{1/2}\sin_l; \quad \hat{D} = -\frac{2\mu}{\lambda+2\mu}\mathrm{Grad\ Div}\cos_l; \quad \cos_{t(l)} = \cos\left(\frac{h}{2}\hat{M}_{l(l)}^{1/2}\right),$$

are derived, which describe the transverse and longitudinal oscillations of a point in the middle plane of a thin layer. Here,

$$\hat{M}_l = -\frac{1}{c_l^2}\frac{\partial^2}{\partial t^2} + \Delta_r \qquad (2),$$

$$\hat{M}_l = -\frac{1}{c_l^2}\frac{\partial^2}{\partial t^2} + \Delta_r, \quad \left(\Delta_r = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}\right).$$

and $\sin_{t(l)} = \sin(\frac{h}{2}\hat{M}_{t(l)}^{1/2})$. These equations unite the shift of a given point in the middle plane with the forces given at a point at a finite distance from it. This leads to the presence of arbitrary-order differential operations in these equations and every term represents an infinite series

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On the oscillations of thin plates

of differential operations over the corresponding quantities. The shifts at the boundaries of the plate are connected with those of the middle plane, and equation

$$\rho h\ddot{U}_{z0}+\frac{h^3}{12}\frac{4\mu(\lambda+\mu)}{\lambda+2\mu}\Delta^2U_{z0}+3\rho\frac{h^2}{12}b\Delta\ddot{U}_{z0}+$$

$$+\rho\frac{h^2}{12}\frac{4\mu(\lambda+\mu)}{\lambda+2\mu}\frac{h^2}{4\mu}c\Delta^2\ddot{U}_{z0}=d(P_1-P_2), \qquad (12)$$

$$d=1-\frac{h^2}{4}\left(\frac{3}{2}-\frac{\mu}{\lambda+2\mu}\right)\Delta.$$

is derived describing the bending waves. In a comparison with results of approximate theories it is shown that the equation of S. P. Timoshenko (Kolebaniya v inzhenernom dele - Oscillations in engineering fields, M. Fizmatgiz, 1959, 314 - 315) shows good approximations. There is 1 figure.

ASSOCIATION: Akusticheskiy institut AN SSSR, Moskva (Acoustics Institute AS USSR, Moscow)

SUBMITTED: July 26, 1962

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.D.

"Noise and sound vibration control on ships" by I.I.Kliukin. Reviewed by B.D.Tartakovskii. Akust. zhur. 9 no.1:133-134 '63. (MIRA 16:5)

(Bibliography--Noise control)
(Bibliography--Vibration (Marine engineering))
(Kliukin, I.I.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.D.

Experimental study of the gain of focusing acoustic lenses. Akust. zhur. 9 no.3:336-339 '63. (MIRA 16:8)

1. Akusticheskiy institut AN SSSR, Moskva.
(Underwater acoustics) (Sound—Apparatus)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.D.

Diffraction pattern of a point image obtained by sound lenses. Akust. zhur. 9 no.4:473-480 '63. (MIRA 17:3)

1. Akusticheskiy institut AN SSSR, Moskva.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

KUDRYAVTSEVA, T.D.; TARTAKOVSKIY, B.D.

Effect of errors in the construction of two-layered systems on their sound insulation properties. Akust. zhur. 11 no.1:62-67 '65. (MIRA 18:4)

1. Akusticheskiy institut AN SSSR, Moskva.

TARTAKOVSKIY, B.D.

Bibliography. Akust. zhur. 11 no.1:133-134 '65. (MIRA 18:4)

L 12064-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/EIC(m) IJP(c) WW/EM

ACC NR: AP5021477 SOURCE CODE: UR/0046/65/011/003/0306/0312

AUTHORS: Borisov, L. P.; Tartakovskiy, B. D.

ORG: Acoustics Institute AN SSSR, Moscow (Akusticheskiy institut AN SSSR)

TITLE: Propagation of flexural waves in a plate with thin obstacles

SOURCE: Akusticheskiy zhurnal, v. 11, no. 3, 1965, 306-312

TOPIC TAGS: flexural vibration, sound propagation, acoustic impedance, mathematic matrix

ABSTRACT: Matrix-algebra methods are used to determine the propagation of flexural waves in structures (wagons, airplanes, ships, etc.) consisting of shells periodically crossed by obstacles. It is assumed that the width of contact between the obstacle (stiffening member) and the plate is small compared with the wavelength in the plate, so that the flexural waves can be regarded as being normally incident on the obstacle. The obstacles are characterized by their force and moment impedances. The form of the matrix of transmission of a wave through one obstacle is determined. A connection is established between the transmission and reflection coefficients and the coefficients of the

 UDC: 534.121.1:534.212

L 12064-66

ACC NR: AP5021477

matrix of transition through n obstacles. The transmission coefficient is calculated for a flexural wave passing through two obstacles with moment impedance N. A family of diagrams is presented, characterizing the dependence of the coefficient of transmission of the frequency for different values of the dimensionless moment impedance. Orig. art. has: 4 figures and 13 formulas.

SUB CODE: 20/ SUBM DATE: 30May64/ NR REF SOV: 001

Card 2/2

L 18446-66 EWT(m)/EWP(1)/T WW/RM

ACC NR: AP6002546 (A) SOURCE CODE: UR/0286/65/000/023/0045/0046

AUTHORS: Trepelkova, L. I.; Tartakovskiy, B. D.; Paley, M. I.; Naumkina, N. I.; Li, P. Z.

33
B

ORG: none

TITLE: Method for plasticizing epoxy resins and compositions based on them. Class 39, No. 176675

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, No. 23, 1965, 45-46

TOPIC TAGS: epoxy plastic, plasticizer, polyether/ PGA-5 polyether

ABSTRACT: This Author Certificate presents a method for plasticizing epoxy resins and compositions based on them by using polyether. To broaden the selection of plasticizers and to add vibration absorption properties to the epoxy compositions, the polyether PGA-5 is used as the plasticizer. This is a product of the interaction of dibutyladipinate and a mixture of diethylene glycol and ethylene glycol.

SUB CODE: 11, 07/ SUBM DATE: 21Jan65

UDC: 678.643.42'5.678.674.046

Card 1/1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

SOV-127-58-3-20/24

AUTHORS: ~~Tartakovskiy, B.N.~~ and Borisyuk, R.F.

TITLE: Scientific-Technical Conference on Strip Mining of Deposits (Nauchno-tekhnicheskaya konferentsiya po otkrytoy razrabotke mestorozhdeniy)

PERIODICAL: Gornyy zhurnal, 1958, Nr 3, p 76 (USSR)

ABSTRACT: This conference was convened in November 1957 on the occasion of the 40th anniversary of the October revolution and took place in the Dnepropetrovskiy gornyy institut(Dnepropetrovsk Mining Institute). It was concerned with strip mining of the Ukraine deposits. Over 30 lectures were delivered. Professor, Doktor of Technical Sciences, M.G. Novozhilov (Dnepropetrovsk Mining Institute) delivered a lecture on "Timely questions of perfecting the strip mining of mineral deposits" who, after having enumerated the achievements, indicated many defects of the industry: inferior qualities and shortage of excavators, dumptrucks, etc. The Chief Engineer of the Institut Krivbassproyekt (The"Krivbassproyekt" Institute) M.N. Zhukov delivered a lecture on the "Development of the Extraction of iron ores by strip mining methods in Krivoy Rog Basin". He said that the explored huge reserves of ores situated in

Card 1/2

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Scientific-Technical Conference on Strip Mining of Deposits

favorable conditions allow the development of strip mining on a large scale. The head of the Podotdel margantsovoy i flyusovoy promyshlennosti Gosplana USSR (Subdivision of manganese and flux industry of the Gosplan of the Ukr.SSR.) V.P. Donchenko said that the plan of the development of the Nikopol' manganese region foresees the increase of strip mining of ores in 1960 to 55% and in 1965 to 75% of the total output. Doktor of Technical Sciences Ye.F. Epshteyn reported on the utilization of thermal drilling with a reactive burner, drilling with the help of an electro-hydraulic procedure, drilling with the help of ultra and infrasonic vibrations and of currents of high and ultra-high frequency. It was also reported that the equipment for strip mines does not meet the requirements of the industry, especially a shortage of engines of continuous operation, excavators, conveyor belts etc. The lack of collaboration between various scientific research institutions was also mentioned. The scientific information is insufficiently organized and literature on strip mining is published in insufficient quantities.

1. Mining industry—USSR
2. Mining engineering
3. Mining equipment

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N., inzh.

Efficiency of using powerful continuous machine units in strip mines of the Dnieper Basin. Nauch. zap. Ukrniiproekta no.2:99-108 '60. (MIRA 15:1)

(Dnieper Basin--Coal-handling machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., inzh.; BORISYUK, R.F., inzh.

Grounds for the selection of a type of console-belt waste-stacker for Ukrainian lignite mines. Izv.vys.ucheb.zav.; gor. zhur. no.6: 15-26 '60. (MIRA 14:5)

1. Dnepropetrovskiy gornyy institut imeni Artema. Rekomendovana kafedroy rudnykh mestorozhdeniy i otkrytykh rabot.
(Ukraine--Coal mines and mining)
(Conveying machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

ZELENSKIY, N.M.; KORSUN', M.Ya.; STEFANOVICH, V.I.; TARTAKOVSKIY, B.N.; ANIKEYEV, I.Ya. (Moskva)

Mechanization of mining operations; underground and open-cut workings. I.R. Voroshilin. Reviewed by N.M. Zelenskii and others. Gor.zhur. no.10:78-80 O '60. (MIRA 13:9)

1. Dnepropetrovskiy gornyy institut (for Tartakovskiy).
(Mining engineering--Equipment and supplies)
(Voroshilin, I.R.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., inzh.; SHALIMANOV, I.P., inzh.

Use of conveyer bridges in open-cut lignite mines in the Dnieper Basin. Izv. vys. ucheb. zav.; gor. zhur. no. 11:39-50 '60. (MIRA 13:12)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy razrabotki rudnykh mestorozhdeniy i otkrytykh rabot Dnepropetrovskogo gornogo instituta.
(Dnieper Basin--Strip mining) (Excavating machinery)
(Mine haulage)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof., doktor tekhn.nauk; SHARKOV, A.M., kand.tekhn. nauk; TARTAKOVSKIY, B.N., gornyy inzh.

New techniques in baring operations for Donets Basin lignite deposits. Ugol' Ukr. 4 no.2:23-25 F '60. (MIRA 13:6)

(Donets Basin--Lignite) (Mining engineering)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N.

Cand Tech Sci - (diss) "Study of system of open working of deposits of the Ukraine with soft covering rock." Moscow, 1961. 17 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst imeni I. V. Stalin); 200 copies;price not given; list of author's works on pp 16-17 (13 entries); (KL, 7-61 sup, 246)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof., doktor tekhn. nauk; SELYANIN, V.G.; TARTAKOVSKIY, B.N.; Prinimali uchastiye: PCHELKIN, G.D., inzh.; ESKIN, V.S., inzh.; SHARKOV, A.M., kand. tekhn. nauk; BORISYUK, R.F., inzh.; ABDUFATTAKHOV, A.A., inzh.; ANDRIYENKO, A.F., inzh.; KTITOROV, P.M., inzh.; GLUSKIN, L.I., inzh.; LEVCHENKO, N.K., inzh.; GAVRILYUK, I.I., inzh.; SHPEKTOROV, Yu.Z., inzh.; KOCHERGA, N.T., red.; GORKAVENKO, L.I., tekhn. red.

[New technical methods and equipment in open-pit mining of mineral deposits] Novaia tekhnologiia otkrytoi razrabotki mestorozhdenii poleznykh iskopaemykh. Pod obshchei red. M.G.Novozhilova. Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1961. 205 p. (MIRA 15:5)

(Strip mining)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., inzh.

New technical methods and equipment for open-pit mining of the Nikopol' manganese deposit. Izv. vys. ucheb. zav.; gor. zhur. no.6:11-18 '61. (MIRA 16:7)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy razrabotki rudnykh mestorozhdeniy i otkrytoy razrabotki.
(Nikopol' region--Manganese mines and mining--Equipment and supplies)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

POLYAKOV, N.S.; SELYANIN, V.G., kand.tekhn.nauk; TARTAKOVSKIY, B.N., inzh.; PCHELKIN, G.D., inzh.

"Modern strip mine transportation" by M. V. Vasil'ev. Reviewed by N. S. Poliakov and others. Gor. zhur. no.11:78-79 N '61. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut. 2. Chlen-korrespondent AN USSR (for Polyakov).
(Mine haulage) (Vasil'ev, M.V.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; SHARKOV, A.M., kand.tekhn.nauk; TARTAKOVSKIY, B.M., gornyy inzh.

New method of excavating trenches in the construction of lignite open-pit mines in the Ukraine. Ugol' Ukr. 5 no.3:28-29 Mr '61.
(Ukraine--Strip mining)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, I.G., prof., doktor tekhn.nauk; SHAKOV, A.M., kand.tekhn.nauk; TARTAKOVSKIY, B.N., gorn.inzh.; VARSHAVSKIY, A.M., gorn.inzh.

Practice in the operation of conveyor bridges for waste dumping in the lignite open-pit mines of the Dnieper Basin. Ugol' 36 no.2:24-30 F '61. (MIRA 14:2)

(Dnieper Basin--Strip mining) (Mine haulage)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., inzh.; GAVRILYUK, I.I., inzh.

New technique for the open working of deposits of flux limestones of the Karakubskoye Ore Administration. Sbor.trud.VNIINegrud no.1:24-33 '62. (MIRA 15:7)

1. Dnepropetrovskiy gornyy institut.
(Limestone) (Ukraine--Strip mining)

NOVOZHILOV, M. G., prof.; TARTAKOVSKIY, B. N., kand. tekhn. nauk; ABDUFATTAKHOV, A. A., inzh.

Improved technical methods and equipment in open-cut operations in iron ore pits of the Kerch Basin. Izv. vys. ucheb. zav.; gor. zhur. 5 no.8:3-11 '62. (MIRA 15:10)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh gornykh rabot.

(Kerch Basin—Strip mining)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., kand.tekhn.nauk; KOVALENKO, A.A., inzh.; BARSUKOV, M.I., inzh.

Basic parameters of working trenches in constructing open pits with continuously operating machines. Izv. vys. ucheb. zav.; gor. zhur. 5 no.10:18-26 '62. (MIRA 15:11)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh rabot.
(Nikopol' region--Strip mining)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, Boris Nusimovich, kand. tekhn. nauk; SELYANIN, Vitaliy Georgiyevich, kand. tekhn. nauk; RZHEVSKIY, V.V., prof., doktor tekhn. nauk, retsenzent; MOLCHANOV, P.V., kand. tekhn. nauk, retsenzent; NURMUKHAMEDOVA, V.F., red.izd-va; BOLDYREVA, Z.A., tekhn. red.

[Mining minerals by the open cut method] Razrabotka mestorozhdenii poleznykh iskopaemykh otkrytym sposobom. Moskva, Gosgortekhizdat, 1963. 194 p. (MIRA 16:12)
(Strip mining) (Quarries and quarrying)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, Boris Nusimovich; VARSHAVSKIY, Anatoliy Mikhaylovich; SHALIMANOV, Iosif Petrovich; NURMUKHAMEDOVA, V.F., red.izd-va; MAKSIMOVA, V.V., tekhn.red.; LOMILINA, L.N., tekhn.red.

[Mechanization of railroad track relocation in open-pit mines] Mekhanizatsiia peredvizhki zheleznodorozhnykh putei na kar'erakh. Moskva, Gosgortekhizdat, 1963. 183 p. (MIRA 16:10)

(Mine railroads--Track)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

POPOV, Georgiy Nikolayevich; NEKRASOVSKIY, Ya.E., prof., retsenzent; TARTAKOVSKIY, B.N., kand. tekhn. nauk, retsenzent; ARSENT'YEV, A.I., dots., retsenzent; LAVRINENKO, V.F., dots., retsenzent; KULIKOV, V.V., kand. tekhn. nauk, otv. red.; PARTSEVSKIY, V.N., red.izd-va; SHKLYAR, S.Ya., tekhn. red.; MAKSIMOVA, V.V., tekhn. red.

[Working mineral deposits] Razrabotka mestorozhdenii poleznykh iskopaemykh. 2., perer. i dop. izd. Moskva, Gosgortekhizdat, 1963. 588 p. (MIRA 16:7)

(Mining engineering)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., doktor tekhn. nauk; TARTAKOVSKIY, B.N., kand. tekhn. nauk; GAVRILYUK, I.I., inzh.

Ways of increasing labor productivity in flux limestone quarries of the Ukraine. Met. i gornorud. prom. no.4:46-49 Jl-Ag '63. (MIRA 16:11)

1. Dnepropetrovskiy gornyy institut (for Novozhilov).
2. Otdeleniye gornorudnykh problem Instituta elektrotekhniki AN UkrSSR (for Tartakovskiy, Gavrilyuk).

NOVOZHILOV, M.G., prof., doktor tekhn.nauk; TARTAKOVSKIY, B.N., kand.tekhn. nauk; ESKIN, V.S., inzh.; KOLESNIK, A.N., inzh.

New technological layouts for using the open-pit method to work Ukrainian manganese ore deposits. Gor. zhur. no.9:12-16 S '63. (MIRA 16:10)

1. Dnepropetrovskiy gornyy institut.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N.; KOVALENKO, A.A.; BARSUKOV, M.I.; VARSHAVSKIY, A.M.

Improving mining technology using a transporter system of mining with continuous machine units. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 5 no.1:51-61 '63. (MIRA 16:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., kand. tekhn. nauk; GAVRILYUK, I.I., inzh.; LASHKO, V.T., inzh.

Parameters of pile-forming conveyors equipped with a swivel-component dumping device. Izv. vys. ucheb. zav.; gor zhur. 6 no.9:27-34 '63. (MIRA 17:1)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh rabot.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N., kand. tekhn. nauk; KOVALENKO, A.A., inzh.; BARSUKOV, M.I., inzh.

Determination of the parameters of working trenches for open pits in the Nikopol' manganese deposit. Shakht. stroi. 7 no.6: 15-17 Je '63. (MIRA 16:7)

1. AN UkrSSR.
(Nikopol' region—Strip mining)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

ABDUKAKHAROV, M.; TARTAKOVSKIY, B.N.; GORULYA, Ye.N.

Analysis of the operation of a conveyor system as dependent on the method of moving the work front. Izv. AN Uz. SSR. Ser. tekh. nauk 7 no.6:87-91 '63. (MIRA 17:6)

1. Gornyy otdel AN UzSSR.

SHVERNIK, Aleksandr Mikhaylovich; SOKOLOV, Anatoliy Valentinovich; POLUBELOV, Aleksey Sergeyevich; KISELEV, Georgiy Ivanovich; BERNSHTEYN, Rafail Lazarevich; SLAVUTSKIY, Samuil Oskarovich; NEVEL'SHTEYN, Yuriy Grigor'yevich; KONDRATENKO, Leonid Fedorovich; LASKIN, Anatoliy Aronovich; LUR'YE, Zakhar Solomonovich; MAKAROV, Vladimir Aleksandrovich; NOVOZHILOV, M.G., retsenzent; BILLICHENKO, N.Ya., retsenzent; VARSHAVSKIY, A.M., retsenzent; TARTAKOVSKIY, B.N., retsenzent. Prinimali uchastiye: ANTONOV, V.A., inzh.; VERBLYUNSKIY, Yu.I., inzh.; ZEMSKOV, P.F., otv. red.

[Overall mechanization and automatic control in strip mines] Kompleksnaia mekhanizatsiia i avtomatizatsiia na kar'erakh. Moskva, Nedra, 1964. 582 p. (MIRA 18:4)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N., kand. tekhn. nauk; ESKIN, V.S.; SOLODOVNIK, L.M.; ROYZEN, Ya.Sh.

Efficient procedure for overburden removal using a combined system of working. Met. i gornorud. prom. no.3:53-56 My-Je '64. (MIRA 17:10)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N.; GAVRILYUK, I.I.; LASHKO, V.T.

Efficient operations diagram of a revolving, link-type dump piler. Ogneupory 29 no.4:172-176 '64. (MIRA 17:4)

1. Otdeleniye gornorudnykh problem AN UkrSSR.

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., kand.tekhn.nauk; ESKIN, V.S., inzh.; SOLODOVNIK, L.M., inzh.; ROYZEN, Ya.Sh., inzh.

Substantiating the efficient limits for strip mining horizontal deposits with the use of continuous-operation equipment. Izv.vys. ucheb.zav.;gor.zhur. 7 no.7:3-7 '64. (MIRA 17:10)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh gornykh rabot.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., prof., doktor tekhn. nauk; TARTAKOVSKIY, B.N., kand. tekhn. nauk; KIRILYUK, V.D., inzh.; SHAPAR', A.G., inzh.

Ways of creating a new technology for open-pit mining operations with the use of the principle of controlled caving of the benches. Gor. zhur. no.4:18-20 Ap '65. (MIRA 18:5)

1. Filial Instituta mekhaniki AN UkrSSR, Dnepropetrovsk.

NOVOZHILOV, N.G., prof.; TARTAKOVSKIY, I.N., kand. tekhn. nauk; [illegible], M.I., inzh.; MANOYLO, A.Ya., inzh.

Haulage and waste disposal method of trenching using continuous operation machine units. Izv. vys. ucheb. zav.; gor. zhur. 8 no.1: 7-10 '65. (MIRA 18:3)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh gornykh rabot.

NOVOZHILOV, M.G., prof., doktor tekhn.nauk; TARTAKOVSKIY, B.N., kand.tekhn. nauk; BARSUKOV, M.I., inzh.; KRASNIKOV, A.S., kand.tekhn.nauk; SAMORODOV, Yu.P., kand.tekhn.nauk

Flow sheets for mining working trenches with continuous machine units. Gor.zhur. no.12:13-18 D '64. (MIRA 18:1)

1. Dnepropetrovskiy filial Instituta mekhaniki AN UkrSSR (for Novozhilov, Tartakovskiy, Barsukov). 2. Institut gornogo dela im. A.A.Skochinskogo (for Krasnikov, Samorodov).

NOVOZHILOV, M.G., prof.; TARTAKOVSKIY, B.N., kand. tekhn. nauk; GAVRILYUK, I.I., inzh.

Basis for the optimum height of the bench flux limestone quarries with the use of electronic computers. Izv. vys. ucheb. zav.; gor. zhur. 8 no.2:100-105 '65. (MIRA 18:5)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, Mikhail Galaktionovich, doktor tekhn. nauk, prof.; TARTAKOVSKIY, Boris Nusimovich; BARSUKOV, Mikhail Ivanovich; VASIL'YEV, B.K., red.

[Designing a technology for open-pit mine construction by using continuous techniques] Proektirovanie tekhnologii stroitel'stva kar'erov pri primenenii tekhniki neprerývnogo deistviia. Moskva, Nauka, 1964. 110 p. (MIRA 18:9)

NOVOZHILOV, Mikhail Galaktionovich, doktor tekhn. nauk; TARTAKOVSKIY, Boris Nusimovich; ESKIN, Vladimir Samuilovich

[Continuous techniques in open-cut mining of deposits; theoretical bases] Potochnaia tekhnologiia otkrytoi razrabotki mestorozhdenii; teoreticheskie osnovy. Kiev, Naukova dumka, 1965. 249 p. (MIRA 18:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.N., kand. tekhn. nauk; ABDUKAHAROV, M.A., inzh.; GORULYA, Ye.N., inzh.

Productive capacity of an open-pit mine depending on the method of front shifting; using continuous waste-disposal conveying units. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:31-34 '65. (MIRA 18:9)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy otkrytykh gornykh rabot.

TARTAKOVSKIY, B.h., kand. tekhn. nauk; CHERKASSKIY, F.B.

Standard series of rotary bucket excavators in the German Democratic Republic. Mot. i gornorud. prom. no.4:84-86 Jl-Ag '65. (MIRA 18:10)

TARTAKOVSKIY, B.N., kand. tekhn. nauk; GLUSKIN, L.I., kand. tekhn. nauk; GAVRILYUK, I.I., inzh.; CHETVERIK, M.S., inzh.

Graphoanalytical method of investigating the regime stripping operations. Sbor. trud. VNIINerud no.4:33-41 '65. (MIRA 18:11)

NOVOZHILOV, M.G., doktor tekhn. nauk; DRUKOVANYY, M.F., kand. tekhn. nauk; TARTAKOVSKIY, B.N., kand. tekhn. nauk; YEFREMOV, E.I., kand. tekhn. nauk; IL'IN, V.I., inzh.; GAVRILYUK, I.I., inzh.

Use of high benches in flux quarries. Vzryv. delo no.57/14: 167-173 '65. (MIRA 18:11)

Filial Instituta mekhaniki AN UkrSSR.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., doktor tekhn. nauk; TARTAKOVSKIY, B.N., kand. tekhn. nauk; ESKIN, V.S.; SEREDA, G.L.; ROYZEN, Ya.Sh.

Main trends in the technology of strip mining in the mines of the Pokrovskiy Mining and Ore Dressing Combine. Met. i gornorud. prom. no.4:60-64 Jl-Ag '65. (MIRA 18:10)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

NOVOZHILOV, M.G., doktor tekhn. nauk; TARTAKOVSKIY, B.N., kand. tekhn. nauk; ESKIN, V.S., kand. tekhn. nauk; KORSUNSKIY, G.Ya., inzh.

Parameters of an efficient flow-sheet for mining with belt conveyor transportation. Ugol' Ukr. 10 no. 1:20-24 Ja '66. (MIRA 18:12)

1. Dnepropetrovskiy gornyy institut.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

AKIMOV, V.I.; ALEKSEYENKO, I.P.; ALENT'YEVA, K.A.; AMOSOV, N.M.; ARUTYUNOV, A.I.; BRATUS', V.D.; VASHCHENKO, I.D.; GELLERMAN, D.S.; GRISHIN, M.A.; DANKEYEVA, T.N.; DENISOVA, A.G.; DOLGOVA, M.P.; IVANOV, N.A.; ISHCHENKO, I.N.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.; NAZAROVA, N.G.; NOVACHENKO, N.P.; PETRUNYA, S.P.; PKHAKADZE, A.L.; RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TAYTSLIN, I.S.; TARTAKOVSKIY, B.S.; CHIZHONOK, P.I.; SHALABALA, M.P.; SHUMADA, I.V.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh. no.3:142-143 My-Je '59. (MIRA 12:10)
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, B.S., dotsent (Lugansk)

Work of the Lugansk Scientific Society of Surgeons from September 1960 to September 1961. Klin.khir. no.6:92-93 Je '62. (MIRA 16:5)

(LUGANSK—SURGICAL SOCIETIES)

TARTAKOVSKIY, B.S., dotsent (Lugansk)

Account of the second Interprovince Scientific Conference of Physicians of Lugansk and Donetsk Provinces. Klin.khir. no.8: 91-92 Jl '62. (MIRA 15:11)

(SURGERY--CONGRESSES)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2

TARTAKOVSKIY, D.F.; CHISTYAKOV, V.A.

Experimental determination of the thermal inertia of a resistance thermometer. Nov. nauch.-issl. rab. po metr. VNIIM no.1:35-39 '63. (MIRA 17:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, D.F.

Calculation of thermal inertia of industrial heat pickups. Izm.tekh. no.11:24-26 N '63. (MIRA 16:12)

TARTAKOVSKIY, D.F.

Design of measurement systems with and electric correction of transducer inertness. Trudy inst.Kom.stand.mer i izm.prib. no. 71:187-197 '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleyeva.

ACCESSION NR: AP4011538 S/0170/64/000/001/0071/0076

AUTHOR: Tartakovskiy, D. F.

TITLE: Certain techniques involved in correcting the dynamic characteristics of heat sensors

SOURCE: Inzhenerno-fizicheskiy zhurnal, 7 no. 1, 1964, 71-76

TOPIC TAGS: thermal inertia, thermometry, thermistors, thermal inertia compensation, thermal inertia correction, thermistor calibration, heat transfer coefficient, thermoanemometry, heat sensors, heat sensor calibration.

ABSTRACT: In measuring varying temperatures with heat sensors such as thermistors, electrical correction is required to counteract the thermal inertia of the instrument. But proper correction can be applied only when the correcting circuit has a time constant equal to the thermal-inertia constant of the thermistor (or other heat sensor). Formulas are obtained for the thermal-inertia constants of homogeneous bodies in the form of an infinite cylinder, plate, and sphere in regular thermal regimes of three types, identified earlier, and designated as ε_I, ε_{II}, and ε_{III}. These formulas relate the first type, which is simplest to calculate, to the other two, thereby facilitating calibration of the sensor for all three regimes. Curves

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ACCESSION NR: AP4011538

are plotted of the ratio of $\varepsilon_{II}/\varepsilon_{I} = f(Bi)$ for the three bodies as well as a table of values of the ratio $\varepsilon_{III}/\varepsilon_{I}$ for various Bi and NR. It is shown that a thin-wire thermistor may be treated as an infinite cylinder, and a method is suggested for finding the constant ε_{II} for a thermistor at the point of installation. An example is given, using the table, of calibrating a thermister made of nickle wire for the third type of thermal regime. An equation is given which shows that a body heated above the temperature of the surrounding medium has a heat transfer coefficient related linearly, illustrated by a curve, to its thermal-inertia constant ε_{II}. The expression is useful in thermoanemometry, for example, in determining the thermal inertia of a constant-temperature filament. Original art. has 2 figures.

ASSOCIATION: Vsesoyuzny*y nauchno-issledovatel'skiy institut metrologii, Leningrad (All-Union Scientific-Research Institute of Metrology)

SUBMITTED: 04Dec62 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: IE, SD NO REF SOV: 006 OTHER: 002

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

80310

SOV/81-59-7-23070

5.5500

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 7, pp 144 - 145 (USSR)

AUTHORS: Shmonin, L.I., Cherdyntsev, V.V., Tartakovskiy, D.I.

TITLE: The Determination of Boron Content by Means of Irradiation With Slow Neutrons

PERIODICAL: Uch. zap. Kazakhsk. un-ta, 1957, Vol 30, pp 7 - 11

ABSTRACT: A method was described for determination of B based on its raised ability (in comparison with other elements by a factor of some hundred) to absorb slow neutrons with the emission of α-particles and Li^7 nuclei according to the reaction: $B^{10} + n = He^4 + Li^7$, the quantity of which is practically proportional to the B content in the analyzed sample. A layer (3 - 5 mg/cm^2) of the finely-ground material to be analyzed is irradiated by neutrons from a Ra-Be-source ($\sim$ 0.15 Curie) moderated in a block of paraffin 7 cm thick, and the number of α-particles and Li^7 nuclei which are emitted by the sample in a time unit, is measured by means of a counter installation with a pulse ionization chamber. The content

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The Determination of Boron Content by Means of Irradiation With Slow Neutrons

of B is found from a calibration graph plotted with the application of standards made of $CaCO_3$ with additions of determined quantities of H_3BO_3. In the case of a proper radioactivity of the analyzed samples exceeding 0.5 pulses per min, an allowance is made for the counting rate without irradiation by neutrons. The mean error of B determination at a content of $\geqslant$ 1% is $\pm$ 10%; the determination lasts $\sim$ 0.5 hour. In the case of a decrease of the B content to 0.1%, the mean error rises to $\pm$ 30% and the determination takes several hours.

A. Nemodruk

Card 2/2

TARTAKOVSKIY, D.L., kandidat tekhnicheskikh nauk.

Building safety passage ways on both sides of haulage drifts. Bezop.truda v prom. 1 no.5:12-14 '57. (MIRA 10:7)

1. Krivorozhskiy nauchno-issledovatel'skiy institut gornorudnoy promyshlennosti.
(Mining engineering--Safety measures)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

IARIAKOVSKIY, D.M.

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

134. A. A. Ilyushin (Moscow): Problems of the theory of plasticity under combined loading.

135. V. K. Kabulov (Tashkent): Elastic-plastic vibrations of rods of non-circular cross section.

136. V. S. Kalinin (Leningrad): The forced non-linear flexural vibrations of a homogeneous prismatic rod and a very long rectangular plate.

137. S. Kaliski (Warsaw): On a method of solving the equations of motion for an infinite anisotropic medium in the presence of a magnetic field.

138. S. N. Kan, F. A. Shkol'nik (Kharkov): An engineering method for the design of open prismatic shells.

139. I. I. Kandaurov (Leningrad): The distribution of vertical compressive stresses and strains in foundations in homogeneous or stratified soils.

140. B. Ia. Kantor (Kharkov): Bending of cantilever plates of variable stiffness.

141. K. S. Karapetian (Erevan): The effect of aging and anisotropy on the creep of concrete.

142. L. M. Kachanov (Leningrad): On the time of rupture in creep.

143. L. M. Kachanov (Leningrad): On some variational principles and methods in the theory of plasticity.

144. K. A. Kerimov (Baku): A procedure of determining an impact tension diagram for large deformations.

145. N. A. Kil'chevskii (Kiev): Some generalizations of the formulation of elastostatic and elasto-dynamic contact problems and methods for their solution.

146. A. Kh. Kim (Omsk): The flow of a visco-plastic medium in a cone.

147. K. A. Kitover (Leningrad): On the elastic equilibrium of thin, infinite orthotropic plates.

148. K. V. Kovalev (Kharkov): Models of the influence surfaces for the intensity of the bending moment in thin plates and shells.

149. A. D. Kovalenko (Kiev): Shallow shells of revolution of variable thickness in a three-dimensional temperature field.

150. M. Kuzarov (Sofia): Dynamic stability of cylindrical and spherical shells.

151. M. Kozarov (Sofia): The influence of initial imperfections of shape on the stability of thin elastic cylindrical sandwich shells under axial compression.

152. W. T. Koiter (Delft): Elastic stability and post-buckling behavior.

153. A. S. Kondratev (Kuibyshev), Yu. P. Barkov (Orenburg): The effect of support elasticity on the natural vibrations of rods.

154. I. M. Kopev, I. A. Oding (Moscow): Strength and plasticity of "whiskers".

155. B. G. Korenev (Moscow): The design of flexible plates and beams on elastic foundation.

156. M. S. Kornishin (Kazan): Bending of rectangular shallow shells with elastic ribs.

157. M. S. Kornishin (Kazan): On the solution of the nonlinear algebraic equations of shell theory.

158. V. G. Korotkin, D. M. Iariakovskii (Leningrad): The one-dimensional problem of the consolidation of a sediment layer with variable specific weight and variable water permeability.

159. A. S. Kosmodamianskii (Saratov): The elastic equilibrium of anisotropic plate with a finite number of elliptical holes.

160. Zh. L. Kosterin (Iaroslavl), I. V. Kragel'skii (Moscow): Rheological phenomena in dry friction.

161. Yu. V. Krutov (Stalinsk): Lateral stability of coupled arches with double curvature.

162. A. I. Kuznetsov (Leningrad): On the theory of plane plastic stress.

163. V. N. Kukudzhanov, L. V. Nikitin (Moscow): Propagation of elastic, visco-plastic waves in bars.

164. V. D. Kupradze (Tbilisi): The investigation of contact problems in the theory of elasticity by the method of singular integral equations.

165. N. V. Lazovskaia (Moscow): The investigation of the deformations of strains on models by the X-ray method.

166. A. Langenbach (Berlin): Application of the non-linear variational principle to some problems of the theory of elastic-plastic strains.

167. A. N. Levi (Moscow): The investigation of rheological properties of gelatin solutions.

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NEPOROZHNIY, P.S.; BELYAKOV, A.A.; VOZNESENSKIY, A.N.; GLEBOV, P.D.; KACHANOVSKIY, B.D.; BASEVICH, A.Z.; TARTAKOVSKIY, D.M.; VASIL'YEV, P.I.; ZARUBAYEV, N.V.; CHUGAYEV, R.R.; KOZHEVNIKOV, M.P.; KNOROZ, V.S.; IVANOV, P.L.; SHCHAVELEV, D.S.; OKORCKOV, S.D.; BELOV, A.V.; STAROSTIN, S.M.; YAGN, Yu.I.; IZBASH, S.V.

Ivan Ivanovich Levi; on his 60th birthday. Gidr. stroi. 30 no.9:61-62 S '60. (MIRA 13:9)
(Levi, Ivan Ivanovich, 1900-)

KOROTKIN, V.G., kand.tekhn.nauk, TARTAKOVSKIY, D.M., kand.tekhn. nauk

Determining the pressure exerted on earth dams by compacting sediments. Gidr. stroi. 30 no.6:35-40 Je '60. (MIRA 13:7)

(Dams)

TARTAKOVSKIY, D. M., ROSA, S. A., REZNICHENKOV, V. K., and LOPASOV, P. D., Leningrad Section of the Institute of Hydroelectric Design, USSR

"The Building of Earth Structures by Dumping of Clayey Soils into Water," a paper submitted at the 4th International Conference of the International Society of Soil Mechanics and Foundation Engineering, London, 12-24 Aug 57.

KOROTKIN, V.G., kand.tekhn.nauk; TARTAKOVSKIY, D.M., kand.tekhn.nauk

One-dimensional problem of the compaction of saturated soil with its varying characteristics. Gidr.stroi. 32 no.9:34-36 S '62. (MIRA 16:2)

(Soil stabilization)

KOROTKIN, V.G., kand.tekhn.nauk; TARTAKOVSKIY, D.M., kand.tekhn.nauk

Some problems of the design and calculations for high core dams. Gidr.stroi. 33 no.4:32-37 Ap '63. (MIRA 16:4)
(Dams--Design and construction)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, G. A. Dr. Tech. Sci.

Dissertation: "Analytical Investigation of the Problems of Drilling." Moscow Order of the Labor Red Banner Petroleum Inst., imeni Academician I. M. Gubkin, 20 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, Grigoriy Aleksandrovich; NIKOLAYEVA, T.A., red. izd-va; FARBER, A.M., red.; SOROKINA, T.M., tekhn. red.

[New system for the construction of pipelines in the form of suspended lines; theory, calculations, design] Novaia sistema sooruzheniia truboprovodov v vide provisaiushchikh nitei; teoriia, raschet, proektirovanie. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 160 p. (MIRA 15:2)
(Pipelines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, G.A.

System of pipeline construction in the form of slack threads; a topic for discussion. Neft. khoz. 39 no.7:53-57 Jl '61. (MIRA 14:6)

(Pipelines)

TARTAKOVSKIY, G.I.

The young Communist is an outstanding worker. Avt. dor. 26 no.1:13-14 Ja '63. (MIRA 16:6)

(Road construction workers)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKIY, G. P.

USSR/Electronics - Frequency Characteristics Jul 52

"Computing the Time and Frequency Characteristics of Multicascade Systems," L. A. Meyerovich, G. P. Tartakovskiy

"Zhur Tekh Fiz" Vol XXII, No 7, pp 1200-1220

Author attempts to simplify complicated computations of multicascade systems by applying method of approximations. He finds the frequency characteristics of systems from the time characteristics, and the latter from characteristics of the composing cascades, on the basis of characteristic parameters.

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TARTAKOVSKIY, G.P.

On the theory of linear pulse systems with variable parameters. (MLRA 9:12)
Elektrosviaz' 10 no.11:3-14 N '56.

(Radio--Transmitters and transmission)
(Pulse techniques (Electronics))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020009-2"

TARTAKOVSKY, G. P.

"Automatic Systems of Discrete Action with Variable Parameters,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.
Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

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