KOSTOV, M.N., D-r.

Boris Burov's Dogovorut za kapitalno stroitelstvo (Contracts for Capital Construction); a book review. Spisanie BAN 5 no.4:128-132 '60. (EEAI 10:5)

(Burov, Boris) (Bulgaria--Building)

KOSTOV, N.

KOSTOV, N. Technical standardization in silk drawing. p. 4. Vol. 5, no. 11, 1956 ELEKTROENERGIIA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

KOSTOV, N.; BAICHEV, I.; KARDZHOV, G.

Prospects for development of ferrous metallurgy. p. 48.
(Minno Delo, Vol. 11, no. 6, Nov./Dec. 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

KOSTOV, N.

TECHNOLOGY

Periodicals: STROITELSTVO. Vol. 5, No. 12, 1958.

KOSTOV, N. The main building frame of the N.I. Vaptsarov State Machine Plant in Pleven. p. 6.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1958. Unclas.

KOSTOV, P.; VASILEV, V.

"Possibility of Mechanizing Productive Processes In Our Forest Nurseries", P. 372. (GORSKO STOPANSTVO, Vol. 10, No. 8, Oct. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

KOSTOV, P.

KOSTOV, P. Method for making a hypsometric plan of an insufficiently studied deep-lying strasm on stratum which has been studiedin detail. p. 84.
Fifty years in the service of the mining industry. p. 90.
New machines and equipment; news in mining technology. p. 92.
Mechanization of coal production in the Soviet Union. p. 95.
Working lignite open-pit mines in the German Democratic Republic. p. 99.
Successes and the forthcoming tasks of the mineral industry and metallurgy in the Rumanian People's Republic. p. 101.

Vol. 11, No. 2, Mar./Apr. 1956.
MINNO DELO
TECHNOLOGY
Sofiia, Bulgaria

So: East European Accession, Vol. 6, No. 3, March 1957

KOSTOV, P. ; GEORGIEV, A.

Condition of the forestry on Ograzden Mountain and prospects for its development. p. 410.
(GORSKO STOPANSTVO, Vol. 12, no. 9, Nov. 1956, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

Abstract: It is brought out that the frequency [illegible] occupational diseases of the peripheral and central nervous system and of psychoneuroses with an occupational background increased in Bulgaria during 1953-1962. This is explained by the accelerated rate of economic development. Statistics of relative severity and of the average number of days lost according to occupations are presented. Conditions arising as a result of exposure to noise and vibrations are discussed. With respect to neurointoxications, the increase of their incidence among agricultural workers, particularly in connection with the use of organophosphorus compounds, is pointed out. The danger presented by radiation sickness to radiologists, engineers using X-rays in work on metals, persons occupied at the nuclear center, etc., is mentioned. Organization of a more effective neurological medical service at industrial enterprises is proposed. Graphs, 58 references (all Bulgarian). Manuscript received Sep 65.
1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220016-5

KOSTOV, PAVEL

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Sofia, Veterinarna Sbirka, Vol 55, No 10, 1961.

1. "An Important Condition for an Efficient Struggle Against Infertility in Livestock," Prof Petodi [illegible], Rector (rektor) of the [illegible] Institute of Veterinary Medicine [illegible] and Dr Georgi [illegible], Deputy Director [illegible]; pp 3-5.

2. "Sixty Years of Service for the People," Ivan [illegible] (affiliation not given) — [The article briefly covers the activities of the Central Veterinary Institute for Infectious and Parasitic Diseases (Tsentralnijat veterinaren institut za zarazni i parazitni bolesti; TsVIZPB)]; pp 6-8.

3. "Ornithosis and Its Epizootological and Epidemiological Significance," Ivan [illegible], Senior scientific worker [illegible] at the TsVIZPB [for abbreviation see item 2 above]; pp 9-13.

4. "The Struggle Against Ornithosis in the German Democratic Republic," (Based on an article by Prof L. [illegible] of Leipzig); p 13.

5. "Lipterphoresis in Rabbits," Dacho [illegible] (no affiliation given); pp 14-17.

6. "Fatal (Hormonal) Abortion in Cows," Prof Petur [illegible] (affiliation not given); pp 18-21.

7. "The Removal of a Foreign Body from the Stomachs of Cattle By Means of Sounding Through the Cardia," Dr Pavel [illegible], Chief Veterinarian (Glaven veterinaren lekar) [illegible] Veterinary Clinic [illegible] in Pleven; pp 22-23.

8. "On the Technology and Inspection of Sausages," Dr Ivan [illegible] (affiliation not given); pp 24-27.

— 1/1 —

BULGARIA

[illegible] Pleven [illegible] pital (Okruzhnata Veterinarna Lechebnitsa), Pleven; and IGNATOV, Dr Ignat, Department Head (Zavezhdasht Otdelenie).

"Slow Cardiac Tamponing in Cattle Caused by a Foreign Body in the System."

Sofia, Veterinarna Sbirka, Vol 60, No 10, 1963, pp 21-22.

Abstract: The authors describe what they term a rather rare case of a cow in which the clinical manifestation of traumatic pericarditis proved upon autopsy after forced slaughter on the basis of incurability to have been caused ultimately by the penetration of a thin nail 12 inches long into the diaphragm, pericardium, and cardiac musculature.

One photograph, no references.

1/1

PETROVA, Ekaterina, inzh.; KOSTOV, Sazdo, arkh.; TOSKOV, Iv., st. konstr.

Application of wood-fiber plates in furniture industry. Durvomebel prom 5 no.1:11-14 Ja-F '62.

1. Nauchnoissledovatelski institut po durvoobrabotvashta i mebelna promishlenost.

KOSTOV, S.

Annual inventory on cooperative farms. p. 10

Vol. 10, no. 11, Nov. 1955
KOOPERATIVNO ZEMEDELIE
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 1 Jan. 1956

KOSTOV S.

BULGARIA / Farm Animals. Small Horned Stock. Q-2

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105662.

Author : Ivanov, P., Kostov, S.
Inst : Higher Agricultural Institute "G. Dimitrov", Zootechnical Faculty.
Title : On the Acclimatization of Karakul Sheep in Bulgaria.

Orig Pub: Nauchni tr. Vyssh. selskostop. in-t "G. Dimitrov". Zootekhn. fak., 1956, 6, 473-497.

Abstract: The influence of the new conditions of life upon the exterior, live weight, milkiness, wool yield and quality of curls and coats of the Karakul ewes and rams, imported in 1945 from the Uzbek SSR (120 ewes and 41 rams), was studied. In the imported Karakul sheep, the height at withers was 70 cm., length of the body 68.6 cm., depth

KOSTOV, S.

KOSTOV, S. Problems of bookkeeping accounting on cooperative farms. p.13.

Vol. 11, no. 8, Aug. 1956
KOOPERATIVNO ZEMEDELIE
AGRICULTURE
Sofiia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

KOSTOV, S.

"Results from crossbreeding local sheep with Karakul rams."

p. 201 (Izvestiia, Vol. 9, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7. No. 12, Dec. 58.

KOSTOV, S.; ZAKHARIEV, Z.; IVANOV, P.

Breeding calves in semienclosed barns during winter. p. 113.

IZVESTIIA. Sofiia, Bulgaria, Vol. 10, 1959.

Monthly List of East European Accessions (EEAI), LC, VOL. 9, No. 2, February, 1960. Uncl.

IVANOV, P., prof.; KOSTOV, St., dots.

International symposium on raising cattle free in semi covered cattle sheds. Spisanie BAN 6 no.1:86-91 '61.

(EEAI 10:9/10)

(Stock and stockbreeding)

PETROVA, Ek., inzh.; KOSTOV, S., arkh.

Exhibition of the Hungarian Applied Art. Durvomebel prom 6 no.5:47-48 S-O '63.

KOSTOV, Gazdo, arkh.; PETROVA, Ekaterina, inzh.; TOSHOV, Ivan

New models and construction of furniture. Durvomebel prom 5 no.6:17-21 N-D '62

1. Nauchnoizsledovatelski institut po durvoobrabotvashta i mebelna promishlenost.

KHRISTOV, St.; BELOVSKI, Al.; KOSTOV, T.

Postoperative atelectasis in surgical treatment of tuberculosis.
Khirurgiia, Sofia 10 no.10:905-912 1957.

1. Sanatorium "Iskreta" Gl. lekar: S. Simeonov.
(PNEUMONECTOMY, compl.
atelectasis in pulm. tuberc.)
(ATELECTASIS, etiol. and pathogen.
pneumonectomy in pulm. tuberc.)

KOSTOV, T.; TSANEV, B.

Arterial hypoxemia and gas acidosis in pulmonary resection.
Khirurgiia 15 no.5/6:494-49? '62.

1. Sanatorium - Iskrets. Gl. lekar: I. Popov.
(PNEUMONECTOMY compl) (ANOXIA etiol)
(ACIDOSIS etiol)

TOSHKOV,Al.,prof.; KOSTOV,V.; KAMBUROV,G.

Liquoid,naganol and asuntol in hemocultures in leptospirosis.
Izv. mikrob. inst.,Sofia no.11:159-168 '60.
(ANTICOAGULANTS pharmacol.)
(SURAMIN pharmacol.)
(LEPTOSPIROSIS diag.)

KOSTOV,V.; GAKHNIIAN,R.

Studies on anti-bacterial properties of some vitamin P-like substances. Izv. mikrobiol. inst. (Sofiia) 16:25-30 '64

TOSHKOV,A.; VELIANOV, D.; KOSTOV, V.

Apropos of antibacterial properties of intravascular and extra-vitro blood. Izv. mikrobiol. inst. (Sofia) 16:153-158 '64

TOSHKOV, Al. TOSHKOV, A.; VULCHANOV, V.Ts.; KOSIEV, V.

Studies on phagocytosis in animals with high and low bacteri cidal properties of the blood. Izv. mikrobiol. inst. (Sofiia) 16:159-164 '64.

TOSHKOV, St.; KOST V, V.

Effect of the etiotropic therapy on the relationship between micro-and macroorganisms. I. Studies on the pattern of penicillin therapy of swine erysipelas. Izv. mikrobiol. inst. (Sofiia) 16:165-180 '66.

KOSTOV, V., inzh.; NAKOV, L.; SAVCHEV, Ch., inzh.; NAUMOVA, R., inzh.

Fireproof finishing of cellulose fiber articles. Trud Inst tekstil prom 3:21-34 '62.

NAKOV, Liuben, nauchen sutrudnik; KOSTOV, Vasil, inzh., nauchen sutrudnik; SAVCHEV, Chavdar, inzh., nauchen sutrudnik

Improving the outward appearance, evenness, and depth of the sewing thread coloring. Tekstilna prom 12 no.3:18-22 '63.

1. Nauchnoizsledovatelski institut po tekstilna promishlenost, Sofiia.

KHOLECHEK, L., inzh.; KHRISTOV, M., inzh.; KOSTOV, V., inzh.

International Symposium on Unwoven Textiles. Tekstilna prom 13 no. 1:39-40 '64.

Kostova, D.

TECHNOLOGY, Ivanov, D.; Gochev, V.; Kostova, D. Extracting potassium from glauconite for production of alkaline fertilizers. p. 7 Vol. 7, no. 10, 1958

VAPTSAROV, Iv.; MIKHOV, Khr.; KOSTOVA, E.

Fatal aspirin poisoning in childhood. Suvr. med. 14 no.12:35-41 '63.

KOSTOVA, Helena, Dr.

Evaluation of pregnancy tests on male Rana esculenta and on Bufo bufo. Cas. lek. cesk. 91 no.21:623-627 23 May 52.

1. Z ustavu pro obecnou biologii lekarske fakulty v Hradci Kralove; prednosta: prof. dr. Bohumil Krajnik.
(PREGNANCY TESTS,
frog tests on Rana esculenta & Bufo bufo, evaluation.)

KOCHANKOV, D.; MADZHAROV, G.; KUNCHEV, N.; TSVETKOV, T.; DIMCHEVA, L.; KOSTOVA, K.; LUMBARSKI, Vl.

Sanatorial therapy of diabetes at Bankia spa. Suvrem. med. Sofia 8 no.3: 37-43 1957.

1. Iz. Sanatorium No. 2 - MSKU - Bankia (Gl. lekar: d-r D. Kochankov).
(DIABETES MELLITUS, therapy,
sanatorial (Bul))

KOSTOVA, M.

Distr: 4E2c(J)

Vulcanization retarders and regulators. P. Nikolinski and M. Kostova. *Godishnik Khim.-Tekhnol. Inst.* 3, Livre 2, 123–40 (1956) (Russian summary 140, German summary 140–1).—Additives used in vulcanization of rubber are reviewed (65 references) and several were tested. Tallow oil, phenyl-HCHO and carbamide-HCHO resins, and phenylsulfonic acid were mild inhibitors. G. H. Meguerian

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KOSTOVA M.

BULGARIA / Chemical Technology, Chemical Products and Their Application, Part 4. - Natural and Synthetic Caoutchouc, Rubber.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 63003.

Author : M. Kostova, N. Petrov.
Inst : Not given.
Title : Fixing Rubber on Metal.

Orig Pub: Leka promishlenost, 1957, 6, No 8, 13 - 16.

Abstract: Various methods of affixing natural (NR) and synthetic (SR) rubber to steel (99.35% of Fe, 0.32% of Mn, 0.24% of C, 0.07% of P, 0.02% of S) were studied. The best glue for the mixture of Buna N and butadienestyrene rubber is chlorinated rubber, because neither the air moisture, nor the method of cleansing of the metal surface have any effect on it. Mixing two kinds of chlorinated rubber with different

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KOSTOVA, M.; VASILEV, A.

"Vulcanization of high temperature."

LEKA PROMISHLENOST, Sofiia, Bulgaria, Vol. 8, No. 4, 1959

Monthly list of EAST EUROPEAN ACCESSIONS INDEX (EEAI), Library of Congress, Vol. 8, No. 8, August 1959

Unclassified

IAMAKOV, Iv., inzh.; RASKAZOV, N., inzh.; KOSTOVA, M., inzh.

Rotors for bicycle dynamos made of isotropic and anisotropic barium ferrite. Mashinostroene 11 no.4:38-40 Ap '62.

KOSTOVA, M., inzh.; PUTOV, I., inzh.; VASILEV, At., st. n. s.

General instructions respecting the technological improvement in restoring automobile tires. Kozhi Sofia 3 no.5:9-10 '62.

NEDIALKOVA, K.; LAMBIEV, Khr.; KOSTOVA, M.; IANAKIEV, V.

Studies of certain factors influencing physical and mechanical properties of the highly-filled latex paste used for condensers in the canning industry. Khim i industriia 35 no.4:147-150 '63.

MARKINA, Z.N.; TSIKURINA, N.N.; KOSTOVA, N.Z.; REBINDER, P.A.

Surface activity of some soaplike semicolloids in relation to micelle formation in their aqueous solutions. Koll. zhur. 27 no.2:242-249 Mr-Ap '65. (MIRA 18:6)

1. Moskovskiy universitet khimicheskiy fakul'tet.

MARKINA, Z.N.; TSIKURINA, N.N.; KOSTOVA, N.Z.; REBINDER, P.A.

Determination of critical concentrations of micelle formations in aqueous soap solutions by the conductometric analysis. Koll.zhur. 26 no.1:76-82 Ja-F '64. (MIRA 17:4)

1. Moskovskiy universitet, khimicheskiy fakul'tet.

KOSTOVA, R.

Bulgarian-Soviet expedition for studying the vegetable resources in Bulgaria. Spisanie BAN no.4:125-131 '59. (EEAI 9:11)
(Bulgaria--Vegetables)
(Russians in Bulgaria)

KOSTOVA, Rositsa, ml. nauchen sutrudnik (Gara Kostinbrod)

On the content of vitamins in fruits. Prir i znanie 14 no.5:2-4 My '61. (EEAI 10:9/10)

1. Tsentralen nauchnoizsledovatelski institut po ovoshtarstvo, gara Kostinbrod.

(Vitamins) (Fruit)

SERAFIMOV, Serafim; KUNCHEV, Evgeni; KOSTOVA, Slika

Certain properties and qualitites of Bulgarian RL sulfur blue dyestuff. Khim i industriia 36 no. 3:95-99 '64.

PETKOV, V., inzh.; KOSTOVA, V., inzh.; NIKOLOV, Iv., inzh.

Studies on light but highly strong betons. Stroitelstvo 11 no. 3:16-19 My-Je '64.

KOSTOVETSKIY, A. [Kostovets'kyi, A.], inzh.

Using flue gases of rotary kilns in drying bricks. Sil' bud. 9 no.8:16-17 Ag '59. (MIRA 12:12)
(Bricks--Drying)

PENCHEV, P., inzh.; KOSTOVA, V., inzh.

Possibilities of lime economization in the lime-cement solutions for building. Stroitelstvo 9 no.5:17-19 S-O '62.

KOSTOVETSKIY, A. [Kostovets'kyi, A.], insh.

Mechanizing the unloading of bricks from annular kilns with small electric tractors. Sil'.bud. 11 no.6:18 Je '61. (MIRA 14:7)
(Brickmaking) (Tractors)

BULANOV, N.G.; KUPRIYANOVA, L.V.; TSUKERMAN, R.V.; BUDNYATSKIY, D.M.; GEL'TMAN, A.E.; KOSTOVETSKIY, D.L.; PISKAREV, A.A.; TARANIN, A.I.; KORNEYEV, M.I.; MOISEYEV, G.I.; KENDYS, P.N.; KIRPICHEV, Ye.F., RUBIN, M.M.; SOKOLOV, N.V.; SHCHERBAKOV, V.A.; KOVALEV, N.N.; BELOV, A.A.; SEREBRYAKOV, G.M.; SATANOVSKIY, A.Ye., red.; RODDATIS, K.F., red.; KORKHOVA, V.I., red.; CHEREPENNIKOV, B.A., red.; KOGAN, F.L., tekhn. red.

[Manufacture of power machinery abroad] Energeticheskoe mashinostroenie za rubezhom. Moskva, 1961. 583 p. (MIRA 16:8)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya.
(Electric power plants--Equipment and supplies)

98159

S/179/59/000/06/020/029
E081/E141

AUTHOR: Kostovetskiy, D.L. (Leningrad)

TITLE: The Bending of a Thin-walled Tube of Nearly Circular Section in the Presence of Internal and External Pressure

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniya, 1959, Nr 6, pp 127-131 (USSR)

ABSTRACT: An external moment M and internal or external pressure p act on the section of a tube (Fig 1) of wall thickness h, mean radius of section a_0, and radius of curvature along the axis R. It is assumed that $h \ll a_0 \ll R$. A system of moving axes is introduced such that the direction Z is tangential to the contour of the section, and the 1 and 3 directions are normal respectively to the cross-section and the middle surface of the tube. (Fig 1 - cross-section of the tube; Fig 2 - deformation of a segment of the tube). Expressions are obtained (section 3) for the potential energy of deformation of the tube (A), of the radial (U_Q) and external (U_p) loads, and of the bending moment (U_M) (page 128). The total

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E061/E141

The Bending of a Thin-walled Tube of Nearly Circular Section in the Presence of Internal and External Pressure

potential energy is then

$$\Pi = A + U_p + U_q + U_M \qquad (3.1)$$

Assuming the displacements are expressible in the form of trigonometric series (Eq 4.1), explicit equations are obtained for the normal stresses σ_1 and σ_2 (the last equations on page 131).
There are 2 figures and 2 Soviet references.

SUBMITTED: June 5, 1959

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S/114/60/000/003/003/008
E194/E355

AUTHOR: Kostovetskiy, D.L., Engineer

TITLE: The Initial Cross-sectional Ellipticity of Curved Thin-walled Tubes, and its Effect on Their Behaviour When Bending

PERIODICAL: Energomashinostroyeniye, 1960, No. 3, pp. 23 - 27

TEXT: Existing methods of calculating the thermal expansion of curved portions of steam pipes do not allow for the influence of their initial cross-sectional ellipticity. In practice it is difficult to retain a truly circular cross-section in thin-walled tubes when forming them into curves. Subsequent bending often makes them more elliptical. It is accordingly of interest to study how the initial cross-sectional ellipticity of the curved portion affects the subsequent bending behaviour of a tube.
An elementary section of curved thin-walled tube subject to external torque and internal pressure is then considered. Strain equations and then stress equations, (20) and (21),

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The Initial Cross-sectional Ellipticity of Curved Thin-walled Tubes, and its Effect on Their Behaviour When Bending

are derived for the inner and outer surfaces of the tubes. The formulae assume that the major axis of the tube section is perpendicular to the plane of the central axis but the formulae for displacement and stress can also be applied when the major axis of the section is in the plane of the central axis of the tube.

In order to evaluate the above-mentioned influence of initial ellipticity in thin-walled tubes, the results of calculations are given for two tubes with 5% ellipticity. Comparison of the data shows that even with this small initial ellipticity the change occurring in the radius of curvature of the tube differs considerably from that occurring in one having the ideal circular cross-section. When the major axis of a section is perpendicular to the plane of the central axis of the tube, the displacement caused by the bending torques are opposite in direction to those caused by the initial ellipticity. Therefore, the deformation of the cross-section

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The Initial Cross-sectional Ellipticity of Curved Thin-walled Tubes, and its Effect on Their Behaviour When Bending

does nothing to reduce the resistance to bending and, depending on the tube size, the shortening of the radius of curvature may be somewhat greater or less than that implied by the elementary theory of bending of a rod. On the other hand, when the major axis of the section lies in the plane of the central axis of the tube, the initial ellipticity always tends to shorten the radius of curvature of the tube, intensifying the effect of the bending moments. This circumstance may be used in designing steam piping with fixed supports, which is subject to thermal expansion.
The calculations show that the initial ellipticity has a considerable influence on the stresses in the tubes and whilst the influence of internal pressure is relatively small in a tube of truly circular section, it is appreciably greater in elliptical tubes. It is considered that in the case of thin-walled tubes which are highly stressed by internal pressure it is particularly important to allow for

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S/114/60/000/003/003/008
E194/E355

The Initial Cross-sectional Ellipticity of Curved Thin-walled Tubes, and its Effect on Their Behaviour When Bending

ellipticity of the tube.
There are 7 figures, 1 table and 2 references: 1 Soviet and 1 non-Soviet.

Card 4/4

S/179/60/000/03/008/039
E081/E441

AUTHOR: Kostovetskiy, D.L. (Leningrad)

TITLE: Bending of Curved Thin-Walled Tubes in the Region of Large Elastic Displacements

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 3, pp 49-54 (USSR)

ABSTRACT: The paper is a continuation of previous work (Ref 5). A curved thin walled tube of circular section (Fig 1: Displacements on bending tube) is subjected to the action of an external moment M and an additional internal pressure p. It is assumed that $h \leqslant r \leqslant R$ (Fig 2, Cross section of tube). The components of displacement of any point on the mean contour of the section in its plane are w and v (Fig 3, Displacements on the contour of a section of the tube). The linear deformations in the longitudinal and transverse directions are given by Eq (1.1). It is assumed that the displacement $v(\varphi)$ is given by Eq (2.1) with $\delta = \text{const}$. The potential energy of deformation of the tube is given by Eq (3.2), where E is Young's modulus,

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Bending of Curved Thin-Walled Tubes in the Region of Large Elastic Displacements

ϑ is Poisson's ratio and $\omega = \delta/R$. The total potential energy, including the contributions of the external moment and the internal pressure, is given by the equation for Π (middle of p 52). The conditions for a minimum

$$\frac{\partial \Pi}{\partial(\vartheta/\theta)} = 0 , \quad \frac{\partial \Pi}{\partial \omega} = 0$$

lead to Eq (4.2) and (4.3), where K, J, λ, γ, q_1, q_2, q_3, q_4 and q_5 are defined at the beginning of Section 4, p 52. For small displacements, these equations reduce to Eq (4.4). The formulae (4.2), (4.3) and (4.4) also apply if the external moment and internal pressure tend to diminish the curvature, provided the correct sign is given to the moment, pressure and curvature. Fig 6 gives curves (called "curves of state") for the relation between $RM/2KJ$ and ϑ/θ for various values of λ and ω when the bending moment increases the curvature, and Fig 7

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Bending of Curved Thin-Walled Tubes in the Region of Large Elastic Displacements

gives corresponding curves when the moment decreases the curvature. Fig 8 refers to a straight tube. The maxima in the curves of state correspond to critical values of the moment M_K above which the tube becomes unstable as a whole. Fig 7 and 9 compare the solution (4.4), obtained on the assumption of small displacements, with the solution (4.2) and (4.3), obtained without making the assumption. It is evident that with an external pressure the linear solution gives appreciable errors even at small values of v/θ. The energy method can only give a rough approximation to the stresses; in simplified form the stress equations are given in Section 5, p 54. There are 9 figures and 5 references, 2 of which are Soviet, 2 English and 1 German.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy kotloturbinnyy institut (Central Scientific Research Institute for Boiler Tubes)

SUBMITTED: January 30, 1960

Card 3/3

S/145/60/000/010/005/014
D234/D304

AUTHOR: Kostovetskiy, D.L., Engineer

TITLE: 3-dimensional bending of a curved thin-walled pipe, taking into account the internal pressure and the deviation of the cross-section from circular shape

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 10, 1960, 82 - 88

TEXT: The outline of the cross-section of the pipe line is assumed to be given in the form of a trigonometrical series in polar coordinates. A movable orthogonal system of coordinates is introduced. The total angular displacement of an end section with respect to the other end section is represented as a sum of two displacements in planes perpendicular to each other. An expression for the potential energy of deformation is deduced, assuming that the outline of the cross-section is not extensible and that $\sigma_3 = 0$; from the condition of minimum potential energy, four independent infinite systems of linear algebraic equations are obtained, and from these the fi-

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3-dimensional bending of a curved ... D234/D304

nal formulas for the variation of curvature of the pipe axis. Final expressions for the stresses on the external and internal surface of the pipe are quoted. The formulas are applied to the particular case of a cross-section having an initial elliptic[illegible] and an example of a practical problem is given. There are 3 figures and 2 Soviet-bloc references.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy kotloturbinnyy institut (Central Scientific Research Institute of Boilers and Turbines)

SUBMITTED: December 27, 1959

Card 2/2

KOSTOVETSKIY, D. L., Cand. Tech. Sci. (diss) "Theory of Bending of Curved Pipe, Considering Internal Pressure and Absence of Transverse Cutting from Curved Form," Leningrad, 1961, 22 pp. (Leningrad Shipbuilding Inst.) 200 copies (KL Supp 12-61, 288).

ABRAMOVICH, S.F., doktor tekhn.nauk, prof.; SAMSONOV, Yu.A., kand.tekhn.nauk; TISENKO, N.G., kand.tekhn.nauk; TYRYSHKIN, V.G., kand.tekhn.nauk; KOSTOVETSKIY, D.L., inzh.

Review of the "Study of the elements of steam turbine, gas turbines, and axial compressors" of the Leningrad Metallurgical Plant (studies, no.6). Energomashinostroenie 7 no.5:44-46 My '61. (MIRA 14:8)

(Steam turbines)
(Gas turbines)
(Compressors)

KOSTOVETSKIY, D.L., kand.tekhn.nauk

Calculation of pipelines with consideration of temperature expansion and elliptical cross section of curvilinear sections. Elek. sta. 34 no.3:20-25 Mr '63. (MIRA 16:3)
(Pipelines)

TRUSHLYAKOV, V.P.; BEREZHINSKIY, A.I.; SPIVAK, M.Ya.; FINOGEYEV, I.A.; LIPETS, A.U.; AYZEN, B.G.; KOSTOVETSKIY, D.L.; BOLDZHI, K.I.; YAMPOL'SKIY, S.L.; FEDOTOV, D.K.; KIRILLOV, I.I.; OSHEROV, S.Ya.; ?YSIN, V.A.; OGLOBLIN, G.A.; KANAYEV, A.A.; BUIEGA, S.S.; [illegible]ORUKHMAN, V.A.; IOEL'SON, V.I.

Inventions. Energ. i elektrotekh. prom. no.3:48-49 Jl-S '64.
(MIRA 17:11)

KOSTOVETSKIY, D.L., kand. tekhn. nauk; BOYADZHI, K.I., inzh.

Double-flow main steam supply line. Energomashinostroenie 10 no.4:9-12 Ap '64. (MIRA 17:6)

KOSTOVETSKIY, G.L.

Clinical characteristics of rabies in man. Zhur.mikrobiol.epid.i immun. 30 no.10:147-148 O '59. (MIRA 13:2)
(RABIES)

KOSTOVETSKIY, G.L., mayor meditsinskoy sluzhby

Oxygen therapy for diseases of the peripheral nervous system.
Voen.-med. zhur. no.8:83 Ag '61. (MIRA 15:2)
(OXYGEN—THERAPEUTIC USE) (NERVOUS SYSTEM—DISEASES)

KOSTOVETSKIY, G.L. (Major of the Medical Service)

"Oxygen therapy in diseases of the peripheral nervous system."

Voyenno-Meditsinskiy Zhurnal, No 8, Aug 1961

KOSTOVETSKIY, G.L., mayor meditsinskoy sluzhby

Course of the after-effects of craniocerebral injuries under conditions of a mountainous locality. Voen.-med.zhur. no.9:79 S '61. (MIRA 15:10)
(SKULL--WOUNDS AND INJURIES) (ALTITUDE, INFLUENCE OF)

KOSTOVETSKIY, I.M.

Studying the process of combined harvesting and chopping of straw. Trakt. i sel'khozmash. 33 no.9:32-33 S '63. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Combines (Agricultural machinery))
(Straw)

KOSTOVETSKIY, I.S.; SPIVAKOV, M.S.

The "2-M Pioner" crane. Rats. i izobr. predl. v stroi. no.110: 21 '55. (MLRA 8:10)

(Cranes, derricks, etc.)

KOSTOVETSKIY, L.D. (Leningrad)

Stability of the quilibrium of a curved thin-walled circular pipe subjected to external pressures. Izv. AN SSSR. Otd. tekh.nauk.Mekh. i mashinostr. no. 1:177-179 Ja-F '61.
(MIRA 14:2)

(Pipe)

KALIUZHNYY, D. N., KOSTOVETSKIY, YA. I.
DAVYDOV, S.A., AKSEL'ROD, M.B.

City Planning - Zone System

Hygienic efficacy of protective zones between industrial plants and living quarters. Gig. i san No. 4, 1952.

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

KALYUZHNYY, D. N., KOSTOVETSKIY, Y A. I.

Ukraine - Sanitary Affairs

Planning and construction of sanitation buffer zones in the Ukraine. Gig i san. No. 7, 1952.

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

KOSTOVETSKIY, YA. Y.

KOSTOVETSKIY, YA. Y.: "Ahygienic evaluation of the microclimate in the reservior area and its effect on the human organism." L'vov, 1955. L'vov State Medical Inst. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis' No. 47, 19 November 1955. Moscow.

KOSTOVETSKIY, Ya.I.

AID P - 1420

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 17/23

Author : Kostovetskiy, Ya. I., Scientific Worker

Title : Inter-Regional Conference on the problem of efficient methods of purification of phenol waste waters from coke chemical plants.

Periodical : Gig. i san., 1, 53-54, Ja 1955

Abstract : At this conference in Stalino, new methods of the dephenolization of sewage, important from the sanitary point of view, were discussed and evaluated.

Institution: None

Submitted : No date.

KOSTOVATSKIY, Ya. I., starshiy nauchnyy sotrudnik

Conference on sanitary improvements in the Donets Basin. Gig. i san. 22 no.9:88 S '57. (MIRA 10:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny
(DONETS BASIN--PUBLIC HEALTH)

KVITNITSKAYA, N.N.; KOSTOVETSKIY, Ya.I.; NAYSHTEYN, S.Ya.

Setting up tolerable limits of sewage disposal into natural waters.
Gig. i san. 22 no.12:63 D '57 (MIRA 11:3)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(WATER--POLLUTION) (SEWAGE DISPOSAL)

PETROV, Yu.L., KOSTOVETSKIY, Ya. I. (Kiyev)

Studying salivation reflexes in making a sanitary rating of water.
Vrach.delo no.7:723-724 Jl'58 (MIRA 11:9)

1. Ukrainskiy institut kommunal'noy gigiyeny.
(SALIVARY GLANDS)
(WATER--ANALYSIS)

KOSTOVETSKIY, Ya.I., kand.med.nauk

Health aspects of rural reservoirs in the Ukraine. Gig. i san. 23 no.6:60-63 Je '58 (MIRA 11:7)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(WATER SUPPLY
of rural areas in Ukraine (Rus))
(RURAL CONDITIONS,
water supply (Rus))

KOSTOVETSKIY, Ya.I., kand.med.nauk

Conference on the purification of sewage from Ukrainian coal chemical plants. Gig. i san. 23 no.8:82-84 Ag '58 (MIRA 11:9)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy.
(UKRAINE--SEWAGE--PURIFICATION)

KOSTOVETSKIY, Ya.I., kand.med.nauk

All-Union Conference on the Protection of the Water Supply from Pollution by Sewage from the Coal Industry. Gig. i san. 24 no.10: 83-85 '59. (MIRA 13:1)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(WATER POLLUTION prev. & control)

KALYUZHNYY, D.N., prof.; KOSTOVETSKIY, Ya.I., kand.med.nauk (Kiyev)

Hygienic problems in the location of industrial enterprises.
Vrach.delo no.3:293-296 Mr '60. (MIRA 13:6)

1. Ukrainskiy institut kommunal'noy gigiyeny.
(INDUSTRIES, LOCATION OF--HYGIENIC ASPECTS)
(INDUSTRIAL WASTES)

PETROV, Yu.L.; KOSTOVETSKIY, Ya.I.

Study of salivary reflexes in man as a method for establishing hygienic standards for the taste qualities of water. Gig.i san. 25 no.1:21-24 Ja '60. (MIRA 13:5)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.
(SALIVATION physiol.)
(WATER SUPPLY)

YANYSHEVA, N.Ya.; FEDORENKO, Z.P.; KOSTOVETSKIY, Ya.I.

Content of 3,4 benzpyrene in the waste waters of coke and coal chemicals industries. Koks i khim. no.10:44-45 '63.
(MIRA 16:11)

1. Ukrainskiy institut kommunal'noy gigiyeny.

KOSTOVETSKIY, Ya.I.; LISOVSKAYA, E.V.; DYATLOVITSKAYA, F.G.; SURKINA, R.M.

Experimental basis for the permissible concentration of chloronitroisocyclohexane and dichlorocyclohexane in bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod no.5:94-106 '62. (MIRA 17:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny.

LISOVSKAYA, E.V.; KOSTOVETSKIY, Ya.I.; DYATLOVITSKAYA, F.G.

Establishing hygienic norms in case of the combined action of chloro- and dichlorocyclohexane and chloronitrosocyclohexane in reservoir water. San. okhr. vod. ot zagr. prom. stoch. vod. no.6:273-279 '64. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny.

KOSTOVETSKIY, Ya.I.; SIROTSKIY, V.V.; KHIL'CHEVSKAYA, R.I.

Establishing hygienic norms in case of the combined action of cyanides and pyridines in the water of reservoirs and rivers. San. okhr. vod. ot zagr. prom. stoch. vod. no.6:280-289 '64. (MIRA 18:3)

1. Ukra`nskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny.

KOSTOVSKI, V.

Pesti George. p. 15
(GLASNIK, Vol. 36, No. 1, 1956 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

KOSTOWSKI, V.

Some problems of teaching geography in Macedonian schools. p. 49.

GEOGRAFSKI HORIZONT. (Geografske drustava Jugoslvaije. Nastavne sekcije.) Zagreb, Yugoslavis. Vol. 4 (i.e.4) no. 3, 1959

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Jan 1960

Uncl.

KOSTOVSKI, Velimir J. (Bitola)

The Pelagonija agricultural farm. Geogr hor 7 no.4:34-35 '61.

KOSTO.SKIY, A.N.

Surfaces

Squaring of continuous surfaces of the form:
$x = \phi(u)$, $y = \psi(v)$, $z = f(u,v)$. Nauk.
zap.L'viv. 12 no. 3, 1949.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

KOSTOVSKIY, A.N., dotsent.

Quadricity of continuous surfaces given in polar coordinates.
Dop.ta pov.L'viv.un. no.4, pt.2:58 '53. (MLRA 9:11)

(Quadrics)

KOSTOVSKIY, A.N., dotsent.

Possibility of solving problems in plotting with one compass having a limited jaw span. Dop.ta pov.L'viv.un. no.4, pt.2: 59 '53. (MLRA 9:11)

(Geometry)

KOSTOVSKIY, A.N.

1 - F/W

Kostovskiĭ, A. N. Integrability of continuous surfaces given in polar coordinates. Ukrain. Mat. Ž. 6, 81–104 (1954). (Russian)

The author considers Lebesgue integrability of a surface given in spherical (polar) coordinates by the equation $\varrho=f(\alpha, \beta)$, where $f(\alpha, \beta)$ is continuous. On the basis of the theory of the Burkill integral and the concept of function of bounded variation in Tonelli's sense [Saks, Theory of the integral, Warsaw-Lwów, 1937, ch. V, § 4], the author proves the following theorem. I. A necessary and sufficient condition for integrability of a continuous surface $\varrho=f(\alpha, \beta)$ in the part belonging to the rectangle

$$D(0\leq\alpha_1<\alpha\leq\alpha_2<\tfrac{1}{2}\pi;\ 0\leq\beta_1<\beta\leq\beta_2<2\pi)$$

is the boundedness of variation in Tonelli's sense of the function $f(\alpha, \beta)$ on the rectangle D. II. If the piece of the surface $S(D)$ belonging to D is integrated, then its area

$$|S(D)|\geq\iint_D f(\alpha,\beta)[f^2(\alpha,\beta)\cos^2\alpha+(\partial f/\partial\alpha)^2\cos^2\alpha+(\partial f/\partial\beta)^2]^{\frac{1}{2}}d\alpha d\beta.$$

(over)

KOSTOVSKIY, A.N.

Kostovskiĭ, A. N. Expression by a double integral of the area of a surface given in polar coordinates. Ukrain. Mat. Ž. 6, 398–404 (1954). (Russian)

In this paper, and its (unavailable) predecessor [reviewed above], material from Saks's book cited in the preceding review is transposed to the case of surfaces of the form $r=f(\alpha, \beta)$ where r, α, β are the polar coordinates of a point in Euclidean 3-space. In particular, it is shown that in order that f be of bounded variation in the Tonelli sense and that the area be given by the usual formula in polar coordinates, it is necessary and sufficient that f be absolutely continuous in the Tonelli sense. *L. C. Young.*

I-F/W

KOSTOVSKIY, A. N.

USSR/Mathematics - Biographic Sketch

Card 1/1

Author : Kostovskiy, A. N.

Title : Aleksandr Sergeyevich Kovan'ko, on the occasion of his sixtieth birthday

Periodical : Usp. mat. nauk, 9, No 2(60), 215-221 1954

Abstract : Brief biographic sketch and description of the mathematical work of A. S. Kovan'ko. Also list of his published works, 1918-1953. Professor at L'vov State University imeni Ivan Franko, head of the chair of mathematical analysis in the mechanico-mathematical faculty, and director of the L'vov Polytechnic Institute. Specialist in almost-periodic functions. Former students of Kovan'ko are: Ya. B. Lopatinskiy, Corr-Mem of Acad Sci Ukrainian SSR; G. S. Arzumanov, A. S. Dzhanumyants, M. Dzhavadov, A. Kostovskiy, candidates of sciences.

KOSTOVSKIY, A.N.

The possibility of solving geometric construction problems using only compasses with limited spread of legs. Nauk.zap.Lviv.un.29: 88-97 '54. (MLRA 10:2)
(Geometry)

KOSTOVSKIY, A.N.

Expressing by a double integral the area of a surface given in polar coordinates. Dop. ta pov. L'viv. un. no.5: pt.2:94-95 '55.
(MLRA 9:10)

(Integrals, Multiple)

KOSTOVSKIY, A.N.

Determining the arguments of complex roots in the case of approximate solutions of algebraic equations by the use of Lobachevskiĭ's method. Dop. ta pov. L'viv.un. no.6 pt.2:78-81 '55.
(MLRA 10:3)

(Equations--Numerical solutions)

KOSTOVSKIY, A.N.

Executing geometrical constructions with a compass only (under the condition that all circles pass through the same point. Dop. ta pov. L'viv. un. no.7 pt.3:277-281 '57. (MIRA 11:2)
(Geometrical drawing)

KOSTOVSKIY, Aleksandr Nikitovich; SOLODKOV, V.A., red.; YERMAKOVA, Ye.A., tekhn.red.

[Geometrical drawing with compass only] Geometricheskie postroeniia odnim tsirkulem. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 61 p. (Populiarnye lektsii po matematike, no.29) (MIRA 12:8)
(Geometrical drawing)

68968

~~16(1)~~ 16 6500 S/020/60/131/02/006/071

AUTHOR: Kostovskiy, A.N.

TITLE: On a Method for the Numerical Solution of Algebraic Equations When the Roots are Euqal in Absolute Value

PERIODICAL: Doklady Akademii nauk SSSR, 1960,Vol 131,Nr 2,pp 242-245 (USSR)

ABSTRACT: The author considers the equation

(1) $f(x)\ a_0+a_1x+\ldots+a_nx^n = 0, \quad a_0 \neq 0$

with the roots $x_1,x_2,\ldots,x_n$ which satisfy the condition

(2) $0 < |x_1| \leqslant |x_2| \leqslant \cdots \leqslant |x_n|$.

For the numerical solution of (1) the author proposes a modification of the method of V.Horak [Ref 1]. The advantage of the proposed method compared with that of [Ref 1] consists in the fact that in [Ref 1] the multiple roots had to be put aside (that was very difficult if the coefficients a_i were known only approximately), while in the present paper an algorithm is given which permits a direct determination of the multiplicities

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On a Method for the Numerical Solution of Algebraic Equations When the Roots are Equal in Absolute Value

S/020/60/131/02/006/071

of roots with equal absolute values. An example is given. There are 3 references, 2 of which are Soviet, and 1 Czecho-Slovakian.

PRESENTED: November 23, 1959, by S.L.Sobolev, Academician

SUBMITTED: November 16, 1959

Card 2/2

4

KOVAN'KO, Aleksandr Sergeyevich; SOKOLOV, Ivan Georgiyevich; KOSTOVSKIY, A.N., otv. red.; FELLER, M.D., red.; MALYAVKO, A.V., tekhn. red.

[Theory of the function of a real variable and fundamentals of functional analysis] Teoriia funktsii deistvitel'nogo peremennogo i osnovy funktsional'nogo analiza. L'vov, Izd-vo L'vovskogo univ., 1961. 401 p. (MIRA 14:11)
(Functions of real variables) (Functional analysis)