

ABRAMYAN, A.V.

Investigations of the physicochemical properties of fused vitreous and recrystallized basalt. Report No.7: Study of the kinetics and mechanism of the decomposition and dissolving of vitreous basalt. Izv.AN Arm.SSR.Khim.nauki 11 no.5:327-342 '58. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut khimii Sovnarkhoza ArmSSR.
(Basalt) (Chemical reactions)

ABRANYAN, H. V.

666/ES
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(Series: 100, 1000)

Sponsoring Agencies: Institut khimii siliknykh Azadani; Nauch. Tsentr. Vsesoyuznyy Khimicheskoye Obshchestvo Imeni D.I. Mendeleeva and Goskharostroyevy Gruzia.

Khimicheskoye Institut Imeni E.I. Varilova.

Editorial Board: A.I. Argutinski, V.P. Barnakovskiy, M.A. Besharodov, G.Z. Petvakhin, V.V. Vargin, A.G. Vlasov, K.S. Yevstrop'yev, A.A. Lebedev, M.A. Matveyev, V.S. Molchanov, R.L. Mydler, Ye.A. Poroy-Kochita, Chairman, M.A. Toropov, V.A. Florinskaya, A.K. Isakhlad, Ed. of Publishing House: I.V. Sorokov, Tech. Ed.: V.T. Bochever.

PURPOSE: This book is intended for researchers in the science and technology of V.I. Docuerver.

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Myriophyton, S. L.

3rd All-Union Conference on the Vitreous State

Stokle i koramika. 1960. Br 3. Pp 45-46 (1952)

The 3rd All-Union Conference on the Vitreous State was held in Leningrad on the 25th and 26th of 1959. It was organized by the Institute of Chemical Physics of the USSR Academy of Sciences and the Leningradskii Institut za MSK (Institute of the Chemistry of Silicates, Vsesoyuznoye khimicheskoe obshchestvo imeni S. I. Mendeleeva (All-Union Chemical Society named S. I. Mendeleev) and Gosdortsevmaterialy (All-Union Scientific Institute named S. I. Lavlova and Gosdortsevmaterialy (All-Union Scientific Institute named S. I. Lavlova) reports on the structure of glasses, purification and physicochemical properties of glasses, and technical properties of glasses were delivered. The Conference was opened by Academician A. A. Lebedev.

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chemical fundamentals of the fusion of glass and metal. The fifth section deals with physical chemistry and mechanical properties of glasses. K. I. Ivanov, G. M. Kartanov and S. I. Dubrovskiy made comprehensive reports. A. A. Abram reported on the fundamental structural parameters with data on the properties of the glass. A. V. Gladkov, V. A. Kabanikhin, V. V. Tsvetkov reported on the research results of the polymeric structure of borosilicate glasses. L. L. Brikman reported on peculiarities of the expansion of oxides in silicate glasses. G. S. Litvinchik reported on the expansion of oxides in the family of corundum-silicate glasses. A. A. Kabanikhin reported on the properties of amorphous glasses. N. A. Shmidt reported on the dependence of the properties of alkali silicate glasses on the composition. Z. M. Mochalova reported on "Investigation of the Dependence of the Optical Properties of Phosphate Glasses on the Composition". A. K. Kabanikhin reported on the subject: "The Periodic Properties of the Optical Constants of Glasses". M. S. Salukova reported on "Mechanical Properties of Glass Fibers". G. M. Zil'berman, A. G. Kabanikhin and V. V. Tsvetkov made a report on the mechanical properties of glasses in the mechanical tests and on the basis of the data on the properties of the glasses on their chemical composition. The last section dealt with the properties of glasses.

Card 7/0

teropropenes. A. V. Abramov reported on the method of "washing of the glasses" by aqueous solutions of acids and the effect of the treatment on the structure of the glasses. S. M. Gribokhikhin and V. F. Maslova reported on synthesis and investigation of borates glassy films. K. Dzhorn reported on physico-chemical properties of glassy silicates glasses. V. A. Dubrovskiy reported on the effect of the treatment of the glasses with solutions of H_2SO_4 and H_2O_2 on the surface film forming on the solution-grown glasses. The effect of the acid, neutral and basic solution on the surface-grown glasses is noted at the final meeting: V. F. Khorina on the effect of the alkaline earth oxides on the chemical stability of the glasses; L. Ya. Maslov on vitrification of glasses in a humid atmosphere; V. V. Mikheyev, Ye. A. Matveeva and properties of borate glasses; E. V. Mikheyev, Ye. A. Matveeva and V. V. Jozuyev on the reaction of electrode glasses with solutions; Doctor Jozuyev and Zolotarev spoke as guests from Eastern Germany. Academician E. V. Belov, M. A. Benbarader, I. I. Kityagorodskiy, Academician A. I. Kuter also spoke at the final meeting.

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ABRAMYAN, A.V.

46

PHASE I BOOK EXPLOITATION

SOV/6195

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Silkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

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ABRAMYAN, H. V.

JUN 25 1963
SOV/S195

PHASE I BOOK EXPLOITATION

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhans, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

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Resp. Ed.: L. Ye. Tur-Minasyan; Ed. of Publishing House: A. G. Silkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

Card 1/11

Materials of the Scientific Conference (Cont.)

SOV/6195

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

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ABRAMYAN, A.V., kand. khim. nauk

Investigation of the leaching process of vitreous basalt,
Stek. i ker. 20 no.7:12-17 J1 '63. (MIRA 17:2)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy institut
Soveta narodnogo khozyaystva ArmSSR.

ABRAMYAN, A.V.

Physicochemical properties of molten, supercooled, vitreous, and recrystallized basalt. Part 8: Leaching of vitreous basalt with an azeotropic solution of hydrochloric acid. Izv. AN Arm. SSR. Khim.nauki 17 no. 3:262-271 '64.

Physicochemical properties of molten, supercooled, vitreous, and recrystallized basalt. Part 9: Leaching of Khaladzh vitreous basalt with a 5% solution of nitric acid. Ibid.: 272-282 (MIRA 17:7)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy institut Soveta narodnogo khozyaystva Armyanskoy SSR.

ABRAMYAN, A.Ya., professor (Moscow).

Resection of an accessory vessel in hydronephrosis. Khirurgiia no.3:48-52
Mr '53. (MLRA 6:6)

(Kidneys--Surgery)

ABRAMYAN, A.Ya., professor.

~~Conservative surgery in hydronephrosis.~~ Urologia no.1:53-62
Ja-Mr. '55. (MLRA 8:10)

1. Iz urologicheskoy kliniki (sav.prof. A.Ya. Abramyan) Mo -
skovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo
instituta (dir. P.M.Leonenko)
(HYDRONEPHROSIS, surgery,
conservatives)

ABRAMYAN, A.Ya.

ABRAMYAN, A.Ya.; PYTEL', A.Ya., (Moskva)

Tenth International Congress of Urologists. Urologia, no.3:
J1-S '55. (MLRA 8:10)

(UROLOGY,
congress)

ABRAMYAN, A.Ya.

[Hydronephrosis; etiology, clinical aspects, treatment] Gidro-
nefrozy; etiologiya, klinika, lechenie. Moskva, Medgis, 1956.

142 p.

(MLRA 9:7)

(KIDNEYS--DISEASES)

ABRAMYAN, A.Ya., professor

Organization of urological service and training of urologists in
Moscow Province. Urologiia 21 no.2:58-62 Ap-Je '56. (MLRA 9:12)

1. Glavnyy urolog Moskovskoy oblasti.
(UROLOGY,
in Russia (Rus))

ABRAMYAN, A.Ya., professor (Moskva)

Fifth Congress of the Polish Urological Society. Urologia 22 no.2:
69-71 Mr-Apr '57. (MIRA 10:7)
(URINARY ORGANS--DISEASES)

ABRAMYAN, A.Ya., professor

Recurrence and postoperative treatment of nephrolithiasis.
Urologiya 22 no.4:8-12 J1-Ag '57. (MIRA 10:10)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya.Abramyan)
Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta.
(KIDNEYS, calculi,
surg., postop. recur. & ther. (Rus))

ABRAMYAN, A.Ya.; PYTEL', A.Ya. (Moskva).

~~SECRET~~
Eleventh International Congress of Urology. Urologia 24 no.1:70-77
Ja-F '59. (MIRA 12:1)

(STOCKHOLM--UROLOGY--CONGRESSES)

ABRAMYAN, A.Ya., prof.; ATABEKOV, D.N., prof.; VOROB'ISOV, V.I., kand. med. nauk; GASPARYAN, A.M., prof.; GREBENSHCHIKOV, G.S., prof.; DZHAVAD-ZADE, M.D., kand. med. nauk; DUNAYEVSKIY, L.I., dots., prof.; LOPATKIN, N.A., dots.; POMERANTSEV, A.A., dots.; PYTEL', A.Ya., prof.; RIKHTER, G.A., prof.; RUSANOV, A.A., prof.; SMIRNOV, A.V., prof.; SYROVATKO, F.A., prof.; TSULUKIDZE, A.P., prof.; SHAPIRO, I.N., prof.; EPSHTEYN, I.M., prof.; PETROVSKIY, B.V., prof., otv. red.; BAKULEV, A.N., akademik, red.; GULYAYEV, A.V., prof.; YEGOROV, B.G., prof., red.; KUPRIYANOV, P.A., prof., red.; PANKRAT'YEV, B.Ye., prof., red.; FILATOV, A.N., prof., red.; CHAKLIN, V.D., prof., red. GORELIK, S.L., red.; GABERLAND, M.I., tekhn. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Gos. izd-vo med. lit-ry. Vol.9. [Surgery of the urinary and genital organs and the retroperitoneal space] Khirurgiia mochevykh i polovykh organov i zabriushinogo prostranstva. 1959. 630 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Petrovskiy, Yegorov, Kupriyanov).
(RETROPERITONEAL SPACE--SURGERY)
(GENITOURINARY ORGANS--SURGERY)

ABRAMYAN, A. Ya.

"Tuberculosis of the kidneys" by St. Lambrev, T. Andreev. Reviewed
by A. Ia. Abramian. Urologia no.6:72 '61. (MIRA 15:4)

(KIDNEYS-TUBERCULOSIS)
(LAMBREV, ST.) (ANDREEV, T.)

ABRAMYAN, A.Ya., prof.

Clinical aspects and treatment of tumors of the kidneys and
upper urinary tract. Urologiia no.1:15-20 '62. (MIRA 15:11)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya. Abramyan)
Moskovskogo nauchno-issledovatel'skogo i klinicheskogo insti-
tuta imeni M.F. Vladimirovskogo.

(KIDNEYS--TUMORS)

ABRAMYAN, A.Ya., prof.; BUSALOV, A.A., prof.; VELIKORETSKIY, A.N.,
 prof.; GROZDOV, D.M., prof.; DORMIDONTOVA, K.V., dots.;
 ZHMAKIN, K.N., prof.; KORNEV, P.G.; LEVIT, V.S. prof.
 [deceased]; LIKHACHEV, A.G., prof.; LORACHEV, S.V., prof.;
 MOLODAYA, Ye.K., prof.; PETROV, B.A.; PRIOROV, N.N. [deceased];
 SALISHCHEV, V.E., prof. [deceased]; SALOMENKOV, I.I., prof.
 [deceased]; TERNOVSKIY, S.D. [deceased]; FAYEGHAN, I.L., prof.,
 zasl. deyatel' nauki; CHAKLIN, V.D.; CHENTSOV, A.G., prof.
 [deceased]; CHERNAVSKIY, V., prof.; SHADURSKIY, K.S., prof.;
 SHAKHRAZIAN, Ye.S., prof.; VELIKORETSKIY, A.N., prof., red.;
 GORELIK, S.L., dots., red.; YELANSKIY, E.N., red.; STRUCHKOVA,
 V.I., red.; KYBUSHKIN, I.N., red.; MEL'NIAYEV, N.A., tekhn.
 red.

[Surgeon's manual in two volumes] Spravochnik khirurga v dvukh
 tomakh. Moskva, Medgiz. Vol.2. 1961. 642 p. (MIRA 17:4)

1. Chlen-korrespondent AMN SSSR (for Yelanskiy, Struchkova,
 Petrov, Ternovskiy, Chaklin). 2. Deystvitel'nyy chlen AMN SSSR
 (for Kornev, Priorov).

ABRAMYAN, B.L.

Approximate solutions of problems concerning bending of rectangular slabs resting on an elastic foundation. Izv.AN Arm.SSR. Ser.FMET nauk 1 no.6:485-494 '48. (MLRA 9:8)

1. Sektor matematiki i mekhaniki Akademii nauk Armyanskoy SSR. (Elastic solids)

Appl. Mech. Rev.
ABRAMYAN, B.L.

*Rods, beams, shafts,
springs, cables etc*

2603. B. L. Abramyan, Torsion of prismatic rods with cruciform cross section (in Russian), Prikl. Mat. Mekh. 13, no. 5, 551-556 (1949).

Paper contains a solution of Saint Venant's torsion problem for a bar of cruciform cross section. Prandtl's torsion function is obtained in form of an infinite series involving hyperbolic and trigonometric functions. Computation of torsional rigidity, based on Prandtl function, is compared with results given by C. Weber's empirical formulas (*Forschungsheft*, p. 249 (1921)) and found to be in good agreement for thin flanged sections only.

L. S. Sokolnikoff, USA

Math + Mech. Group, Univ. of Calif. at San Diego

1950

"APPROVED FOR RELEASE: 03/20/2001

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APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100220012-3"

1. ABRAMYAN, B. L.
2. USSR (600)
4. Mathematical Physics
7. Torsion of prismatic rods with a cruciform cross section. Soob Inst mat i mekh
AN Arm SSR No 5 1950
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ABRAMYAN, B.L.

Bending of a prismatic bar having a cross-shaped profile. Izv. AN
Arm. SSR. Ser. Fmet nauk 4 no. 5:393-412 '51. (MLRA 9:8)

1. Sektor matematiki i mekhaniki Akademii nauk Armyanskoy SSR.
(Elastic rods and wires)

ABRAMYAN, B.L.

Abstract, B.L. On the problem of torsion of nonhomogeneous prismatic bars. Akad. Nauk. Arm. SSR. Doklady. 14, 9, 14, 1975.

An approximate solution, based on the theorem of minimum potential energy, is outlined for the Saint Venant torsion problem for bars. It is supposed that the displacement is uniform along the contours of the cross section by thin layers of material with high shearing modulus. An example is worked out for the case of a rectangular cross section. The results of the present analysis are compared with the results of the exact solution. Attention is made to estimate the accuracy of approximate solutions.

I. S. Sokolnikoff (Los Angeles, Cal.)

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ABRAMIAN, B. L.

PA 172T97

USSR/Physics - Rods

Jan/Feb 51

"Torsion of Prismatic Beams With Trapezoidal Cross Section," B. L. Abramyan, N. Kh. Arutyunyan (Yerevan), Math and Mech Res Group, Acad Sci Armenian SSR

"Priklad Matemat i Mekh" Vol XV, No 1, pp 97-102

Exact soln for problem of twisted prismatic beam with cross section in form of rectangle or equilateral trapezoid with acute equal to 45° . Formulas obtained det stresses and rigidity of profile during torsion for various ratios b/a of cross section's dimension. Submitted 9 Sep 50.

172T97

IDENTIFICATION: B-15

7

Abramyan, B. L. and Dirbadyan, M. M. On the torsion of shafts of variable cross-section. *Pril. Mat. Mekh.* 15:451-472 (1951). Russian.

A solid cylindrical shaft consisting of sections of different radii is twisted by a torque. The problem of the torsion of such a shaft is solved when the external load is a function of bounded variation. The stress function is represented in a series of Bessel's functions whose coefficients are determined from a completely regular system of linear algebraic equations. Formulas for stresses, depending on the geometrical parameters of the shaft, are given.

I. S. Sokolnikoff.

Smu 22

Source: Mathematical Review,

ABRAMYAN, B.L.
ABRAMYAN, B.L.

Temperature stresses in rectangular concrete blocks. Izv. AN
Arm. SSR Ser. FMET nauk 7 no.3:1-18 My-Je '54. (MLRA 8:3)
(Strains and stresses) (Concrete blocks)

ABRAMYAN, B. L.

✓ Abramyan B. L. On the problem of axially symmetric deformation of a circular cylinder. Akad. Nauk SSSR. Dokl. 19, 3-12 (1954). (Russian. Armenian summary)

1 - P/W

An isotropic circular cylinder is undergoing infinitesimal elastic deformation under given axisymmetrical distributed loading on the curved and end surfaces. By expansion of the loading functions in series, systems of linear equations in infinitely many unknowns are set up. No problems are solved. L. M. Milne-Thomson.

gjp qd

ARUTYUNYAN, N.Kh.; ABRAMYAN, B.L.

Thermal stresses in rectangular concrete blocks. Izv. AN Arm. SSR.
ser. FMBT nauk 8 no.4:25-66 J1-Ag '55. (MLRA 9:2)

1. Sektor matematiki i mekhaniki AN Armyanskoy SSR.
(Concrete blocks) (Strains and stresses)

AUTHOR	ABRAMYAN, B.L.	PA - 2211
TITLE	On the Plane Problem of the Elasticity Theory for a Rectangle (K ploskoy zadache teorii uprugosti dlya pramougol'nika).	
PERIODICAL	Prikladnaia Matematika i Mekhanika, 1957, Vol 21, Nr 1, pp 89-100 (U.S.S.R.)	
ABSTRACT	Received 3/1957 Reviewed 4/1957 The present work furnishes a solution of the first plane boundary value problem of the elasticity theory for a rectangular domain in the case of any stress upon the boundaries of the rectangle by normal- and tangential tensions. The solution of the problem is represented in FOURIER series with trigonometrical functions. The paper begins by discussing the <u>problem</u> (as already mentioned above). For the stresses asymmetric boundary conditions are applicable. In the plane elasticity problem stresses can, as is known, be determined by a biharmonic function $\phi(x,y)$. For $\phi(x,y)$ an ansatz is here explicitly written down. Also for stresses at the edges of the rectangle expressions are given. The functions f_i occurring in these expressions are developed in FOURIER series and the conditions resulting are written down. Next, the very voluminous expressions for the determination of the coefficients are written down. The systems of equations mentioned here are all very voluminous, and all totalities occurring here are quite regular. If the theory of regular systems of linear equations is used, the integration coefficients can be estimated with any accuracy, and with the aid of these estimates the upper and the lower limit for the stresses σ_x, σ_y, and τ_{xy} is then determined.	

Card 1/2

PA - 2211

On the Plane Problem of the Elasticity Theory for a Rectangle.

In conclusion several special cases of these boundary conditions are discussed. If the boundary conditions are assumed symmetrically with respect to a symmetry axis or both symmetry axes of the rectangle, the solution of the problem becomes more simple. The ansatzes for the biharmonic function $\phi(x,y)$ corresponding to these cases are given. As an example the problem of the expansion of a quadratic plate with symmetric load is investigated.

(1 illustration)

ASSOCIATION Institute for Mathematics and Mechanics of the Academy of Science of the Armenian S.S.R.

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SUBMITTED 16. 3. 1956

AVAILABLE Library of Congress

Card 2/2

ABRAMYAN, B.I.

A plane problem in the theory of elasticity for a rectangle.
Dokl. AN Arm. SSR 21 no.5:193-198 '55. (MIRA 9:4)

1. Sektor matematiki i mekhaniki Akademii nauk Armyanskey SSR.
Predstavlene N.Kh.Arutyunyanen.
(Elasticity)

ABRAMYAN, B.L.; MANUKYAN, M.M.

Solving the plane problem of the elasticity theory for a rectangle associated with transpositions. Dokl. AN Arm. SSR 25 no. 4:177-184 '57. (MIRA 11:2)

1. Institut matematiki i mekhaniki AN ArmSSR. Predstavleno N.Kh. Arutyunyanom..

(Elasticity)

AUTHORS: Abramyan, B.L. and Babloyan, A.A. SOV/22-11-4-9/11

TITLE: On the Bending of Thick Round Plates Under Axial Symmetric Load (K izgibu tolstykh kruglykh plit osesimmetrichnoy nagruzkoy)

PERIODICALS: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1958, Vol 11, Nr 4, pp 95 - 106 (USSR)

ABSTRACT: The authors consider a thick round plate which is fastened so that the whole lateral face is free of radial displacements and that a point of the plate axis does not suffer an axial displacement (see Lur'ye [Ref 1]). The authors investigate the bending of the plate under arbitrary axial symmetric load acting on the base surfaces. The problem is solved by the solution of the basic equations of elasticity theory with the aid of the Fourier method. The boundary conditions are assumed to be piecewise continuous and to be of bounded variation. Without giving the intermediate calculations which are probably very extensive, the authors present explicit final expressions for the in-

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'On the Bending of Thick Round Plates Under Axial
Symmetric Load

SOV/22-11-4-9/11

tegration constants and the coefficients of the stress
function. In two tables and in several diagrams numerical
approximative values (probably very inexact) for an example
are given.

There are 3 figures, 2 tables, and 11 references, 7 of which
are Soviet, 3 English, and 1 German.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute for Mathematics and Mechanics, AS Armenian SSR)

SUBMITTED: April 10, 1958

Card 2/2

ABRAMYAN, B.L. (Yerevan)

Torsion of circular cylindrical shaft having a conical part.
Prikl.mat. i mekh. 22 no.5:679-683 S-O '58. (MIRA 11:11)
(Torsion)

ABRAMYAN, B.L.

Some problems of the equilibrium of a circular cylinder. Dokl. AN
Arm. SSR 26 no.2:65-72 '58. (MIRA 11:5)

1. Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR.
Predstavleno N. Kh. Arutyunyanom.
(Elasticity)

ABRAMYAN, B.L.; BABLOYAN, A.A.

Torsion in anisotropic cylinders. Dokl. AN Arm. SSR 27 no. 5:
269-275 '58. (MIRA 12:5)

1. Institut matematiki i mekhaniki AN Arm. SSR i Yerevanskiy
gosudarstvennyy universitet. Predstavleno akademikom N. Kh.
Arutyunyanom.
(Torsion) (Elastic plates and shells)

ABRAMYAN, B.L.

309/2660

PHASE I BOOK EXPLOITATION

16(1)

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

Trudy. t. 4: Kratkiye soobsheniya sekretskoykh dokladov. Doklady Inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow, vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959. 247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Tech. Ed.: G.M. Shvachenko; Editorial Board: A.A. Abramov, V.O. Boltyanskiy, A.M. Vasil'yev, B.V. Medvedev, A.B. Myshkis, S.M. Nikolskiy (Assoc. Ed.), A.G. Postnikov, I.V. Prokhorov, E.A. Rybakov, P. L. Ul'yanov, V.A. Uspenskiy, M.O. Ghetayev, G. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover a wide range of topics in number theory, algebra, differential equations, integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Yushchenko, Ye. L. (Kiyev), and L. P. Nizhnik (Kiyev). The programming of one new boundary value problem for a difference equation of parabolic type 101

Section on the Mathematical Problems of Mechanics

Abramyan, B.L. (Yerevan). On the plane problem of the theory of elasticity for a rectangular region 102

Vlasov, Y.Z. (Moscow). Method of initial functions in the theory of thick multilayer plates and shells 102

Gol'denveizer, A.L. (Moscow). Formal asymptotic representations of the integrals of partial differential equations with small parameter 102

Reichlinik, E.I. (Moscow). Nonlinear vibrations of cylindrical panels in supersonic flow 104

Krasil'shchikova, Ye.A. (Moscow). The method of integral equations in problems of the theory of a thin wing in compressible flow 106

Card 20/34

S/022/59/012/06/03/009

AUTHORS: Abramyan, B. L., Tonoyan, V. S.

TITLE: Torsion of Prismatic Bars^{no} the Cross Section of Which is an Annular Sector With Teeth

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1959, Vol. 12, No. 6, pp. 69-88

TEXT: The authors consider bars, the cross section of which is an annular sector which bears one or two symmetrically situated ring-sector-shaped apertures, so that there remains a ring sector with two or one ring-sector shaped teeth. According to a method of N. Kh. Arutyunyan (Ref. 12) the rigorous solution of the problem is reduced to the solution of infinite systems of linear equations, from which the constants of the solution represented by a series must be obtained. The authors prove that the systems are completely regular in the sense of Kantorovich. In the case of a circle or circular ring sector closed expressions for torsional rigidity and tangential stresses are obtained. Numerical examples are considered.

✓B

Card 1/2

S/022/59/012/06/03/009

Torsion of Prismatic Bars, the Cross Section of Which is an Annular Sector With Teeth

A. N. Dinnik, A. Sh. Loshkin and V. N. Lyskov are mentioned in the paper. There are 8 figures, 5 tables, and 16 references: 9 Soviet, 1 German, 1 Swiss, 1 American, 2 English and 2 French.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics AS Armenian SSR)

SUBMITTED: June 25. 1959

✓B

Card 2/2

ABRAMYAN, B.L.

Torsion of cylindrical rods with longitudinal wedge-shaped grooves. Dokl.AN Arm.SSR 28 no.3:109-116 '59.

(Elastic rods and shells) (Torsion)

(MIRA 12:7)

ABRAMYAN, B.L.

Torsion of a cylindrical rod with longitudinal cavities. Dokl. AN
Arm. SSR 28 no.5:201-211 '59. (MIRA 12:10)

1. Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR i
Yerevanskiy gosudarstvennyy universitet. Predstavleno akademikom
AN Armyanskoy SSR N.Kh. Arutyunyanom.
(Torsion) (Elastic rods and wires)

ABRAMYAN, B.L., BABLOYAN, A.A.

Torsion of round rods with longitudinal grooves or teeth
and a cavity through the center. Dokl. AN Arm. SSR 29 no.5:
203-209 '59. (MIRA 13:6)

1. Institut matematiki i mekhaniki Akademii nauk Armyanskoy
SSR. Predstavleno akad. AN Armyanskoy SSR N.Kh. Arutyunyanom.
(Elastic rods and wires) (Torsion)

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,
Moscow, 27 Jan - 3 Feb '63.

1. A. A. Abkhazov, A. P. Baklanov, L. A. Shvartz (Moscow): Superelasticity of viscoplastic solids and the basis for deriving well-posedness.
2. A. A. Abkhazov, V. A. Kuznetsov, A. A. Shvartz (Moscow): Heat transfer in a solid viscoplastic material.
3. L. A. Shvartz (Moscow): Torsion of cylindrical shells.
4. L. A. Shvartz (Moscow): Torsion of cylindrical shells with hollow matrix and longitudinal cracks.
5. L. A. Shvartz, A. A. Baklanov (Moscow): Torsion of cylindrical shells with longitudinal cracks.
6. A. A. Shvartz, A. A. Baklanov, V. A. Kuznetsov (Moscow): Modeling and post-buckling behavior of shells under dynamic loading.
7. A. A. Shvartz (Moscow): New relations between the solutions of plane and axisymmetric problems in the theory of elasticity.
8. A. A. Shvartz (Moscow): Superplasticity and its role in the theory of plane viscoplastic problems by means of potentiality.
9. V. A. Kuznetsov, N. A. Baklanov (Moscow): Some problems of plasticity in elasticity.
10. A. A. Shvartz, V. A. Kuznetsov, L. A. Shvartz (Moscow): The role of plasticity in the theory of plane viscoplastic problems.
11. A. A. Shvartz (Moscow): Two-dimensional bodies of equal volume.
12. A. A. Shvartz (Moscow): Asymmetrical vibration of an elastic shell.
13. A. A. Shvartz (Moscow): On the theory of viscoplastic shells and plates.
14. A. A. Shvartz, L. A. Shvartz (Moscow): Some problems in the theory of viscoplastic (non-elastic) shells.
15. L. A. Shvartz (Moscow): Stability analysis of a stiffened cylindrical shell under axial compression.
16. V. A. Kuznetsov, A. A. Shvartz, L. A. Shvartz (Moscow): The stability of a cylindrical shell under axial compression.
17. A. A. Shvartz (Moscow): The stress distribution in a heavy shell with a cylindrical hole, the role of plasticity in the theory of viscoplastic shells.
18. A. A. Shvartz (Moscow): Plasticity and its role in the theory of viscoplastic shells.
19. A. A. Shvartz (Moscow): The plane contact problem of the theory of viscoplastic shells.
20. V. A. Kuznetsov, L. A. Shvartz, A. A. Shvartz (Moscow): The stability of a cylindrical shell under axial compression.
21. A. A. Shvartz (Moscow): The general solution of the problem of elastic strains in a cylinder of finite length.
22. A. A. Shvartz (Moscow): The theory of equilibrium cracks in a shell.
23. A. A. Shvartz (Moscow): Mechanical properties of rubber-like polymers.
24. A. A. Shvartz (Moscow): Dynamic design of structures subjected to random effects.
25. A. A. Shvartz (Moscow): Temperature distribution in a shell under random effects.
26. A. A. Shvartz (Moscow): The stability of a cylindrical shell under axial compression.
27. A. A. Shvartz (Moscow): The theory of the limit state of stress in a shell under random effects.
28. A. A. Shvartz (Moscow): The use of viscoplasticity in the theory of shells.
29. A. A. Shvartz (Moscow): Stress distribution in a shell.
30. A. A. Shvartz (Moscow): Differential equations of the theory of viscoplastic shells.
31. L. A. Shvartz (Moscow): On solving some problems with viscoplastic shells of plasticity.
32. A. A. Shvartz (Moscow): Method of space transformations in the non-linear theory of plates and shells.
33. A. A. Shvartz (Moscow): The non-linear problem of viscoplasticity at superelastic speeds.
34. A. A. Shvartz (Moscow): Strength and large strain of viscoplastic shells.
35. A. A. Shvartz (Moscow): The statistical theory of viscoplastic shells.

S/022/60/013/005/001/000
C111/C222

AUTHORS: Abramyan, B.L., and Tonoyan, V.S.

TITLE: Torsion of a Prismatic Bar the Cross Section of Which is an Ellipse With Notches

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1960, Vol. 13, No. 5, pp. 3 - 15

TEXT: The authors consider the torsion of a prismatic bar the cross section of which is an ellipse having two notches lying symmetrically at the ends of the small semiaxis. The tension function $U(\alpha, \beta)$, where the elliptic coordinates α, β are defined by

$$(1.1) \quad \begin{aligned} x &= c \operatorname{ch} \alpha \sin \beta, \\ y &= c \operatorname{sh} \alpha \cos \beta, \end{aligned}$$

in the quarter ellipse is sought in the form

$$(1.3) \quad U(\alpha, \beta) = \begin{cases} U_1(\alpha, \beta) & \text{in } \Omega_1, \text{ where } \alpha \leq \alpha_1; \\ U_2(\alpha, \beta) & \text{in } \Omega_2, \text{ where } \beta \geq \beta_1, \end{cases}$$

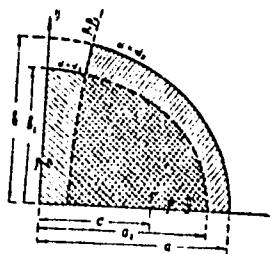
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S/022/60/013/005/001/008
C111/C222

Torsion of a Prismatic Bar the Cross Section of Which is an Ellipse
With Notches

where Ω_1 and Ω_2 are the overlapping regions in figure 2.

Fig. 2



Фиг. 2.

According to G.A. Grinberg (Ref. 8) the functions U_1 and U_2 are set up in the form

$$(1.8) \quad U_1(\alpha, \beta) = \sum_{k=1}^{\infty} f_k(\beta) \sin \gamma_k(\alpha - \alpha_1), \quad (0 < \alpha < \alpha_1)$$

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Torsion of a Prismatic Bar the Cross Section of Which is an Ellipse With Notches

$$(1.9) \quad U_2(\alpha, \beta) = \sum_{k=1}^{\infty} \varphi_k(\alpha) \sin \mu_k (\beta - \beta_1), \quad (\beta_1 < \beta < \frac{\tilde{\pi}}{2})$$

where

$$(1.10) \quad \gamma_k = \frac{(2k-1)\tilde{\pi}}{2\alpha_1}, \quad \mu_k = \frac{(2k-1)\tilde{\pi}}{\tilde{\pi} - 2\beta_1}$$

$$(1.11) \quad f_k(\beta) = \frac{2}{\alpha_1} \int_0^{\alpha_1} U_1(\alpha, \beta) \sin \gamma_k(\alpha - \alpha_1) d\alpha,$$

$$(1.12) \quad \varphi_k(\alpha) = \frac{4}{\tilde{\pi} - 2\beta_1} \int_{\beta_1}^{\frac{\tilde{\pi}}{2}} U_2(\alpha, \beta) \sin \mu_k (\beta - \beta_1) d\beta.$$

After the use of boundary conditions and conditions of compatibility the authors obtain infinite linear systems of equations for the determination of the integration constants. It is shown that these systems are complete-

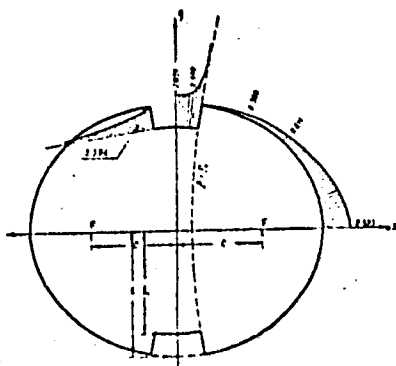
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Torsion of a Prismatic Bar the Cross Section of Which is an Ellipse With Notches

ly regular. An explicit expression is given for the torsional strength. Figure 6 shows the distributions of the tangential stresses

Fig. 6



Фиг. 6.

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Torsion of a Prismatic Bar the Cross Section of Which is an Ellipse
With Notches

There are 2 tables, 6 figures and 8 references : 5 Soviet, 1 German and
2 English.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics of the Academy of
Sciences Armyanskaya SSR)

SUBMITTED: June 17, 1960

Card 5/5

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50253

S/040/60/024/02/12/012

AUTHORS: Abramyan, B. L., Babayan, A. A. (Yerevan)

TITEL: The Torsion of Round Bars With Grooves and Teeth in Longitudinal Direction and With a Centrally Situated Hollow Space

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 14, No. 2, pp. 341-349

TEXT: The authors consider the torsion of a round prismatic bar which possesses a centrally situated hollow space and on the outside or inside wall of which there occur symmetrically distributed longitudinal grooves. The side walls of the notchings are planes going through the axis of the bar. With the aid of the method of (Ref. 1,2) the authors obtain a rigorous solution. The integration constants must be determined from linear infinite systems of equations which are perfectly regular in the sense of Kantorovich and which possess free terms bounded from above and tending to zero. In two special cases (a) six notches b.) one notch) a numerical calculation is carried out. The same torsional problem for notched bars, however without hollow space.

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S/040/60/024/02/19/032

The Torsion of Round Bars With Grooves and Teeth in Longitudinal
Direction and With a Centrally Situated Hollow Space

was investigated in (Ref 5,4)

There are 7 figures, 4 tables, and 5 references: 3 Soviet and 2
Roumanian.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics AS of the
Armenian SSR)

SUBMITTED: April 19, 1959

X

Card 2/2

88757

S/040/60/024/006/011/024
C 111/ C 333

16.7300

AUTHOR: Abramyan, B. L. (Yerevan)

TITLE: On the Torsion of a Body of Rotation by Axialsymmetric Load

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No. 6,
pp. 1047-1056

TEXT: The torsion problem of a body of rotation with axialsymmetric load is solved with the aid the displacement function $\psi(r, z)$ which in the domain of the axial section of the body satisfies

$$(1.1) \quad \frac{\partial^2 \psi}{\partial r^2} + \frac{1}{r} \frac{\partial \psi}{\partial r} + \frac{\partial^2 \psi}{\partial z^2} = 0$$

and on the boundary of the axial section is given by

$$(1.2) \quad \frac{\partial \psi}{\partial \nu} = \frac{1}{Gr} S_\nu(r, z), \quad (S_\nu(r, z) = \tau_{r\varphi} \cos(r, \nu) + \tau_{z\varphi} \cos(z, \nu)) \quad X$$

where $S_\nu(r, z)$ is the projection of the complete tangential stress on the normal of the boundary of the axial section,

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On the Torsion of a Body of Rotation by Axial symmetric Load

$$(1.3) \quad \begin{aligned} \tau_{r\varphi} &= Gr \frac{\partial \psi}{\partial r}, \quad \cos(r, \nu) = \frac{dr}{d\nu} = \frac{dz}{ds} \\ \tau_{\varphi z} &= Gr \frac{\partial \psi}{\partial z}, \quad \cos(z, \nu) = \frac{dz}{d\nu} = \frac{dr}{ds} \end{aligned}$$

The torsional moment of the forces acting on the surface is

$$(1.4) \quad M(s) = 2\pi \int_0^s r^2(s) S_\nu[r(s), z(s)] ds$$

where s is the arc of the generating curve of the body.

After passage to polar coordinates (figure 1)

$$(1.5) \quad \begin{aligned} r &= \rho \sin \theta = \rho_0 e^t \sqrt{1 - \xi^2} \xi, \quad -\cos \theta = \frac{z}{\sqrt{r^2 + z^2}} \\ z &= \rho \cos \theta = \rho_0 e^t \xi, \quad t = \ln \frac{\rho}{\rho_0} = \ln \frac{\sqrt{r^2 + z^2}}{\rho_0} \end{aligned}$$

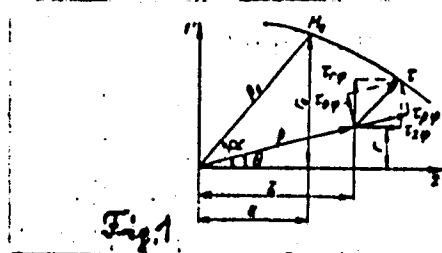
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On the Torsion of a Body of Rotation by Axialsymmetric Load



the author obtains the equation

$$(1.6) \quad \frac{\partial^2 \psi^*}{\partial t^2} + (1 - \xi^2) \frac{\partial^2 \psi^*}{\partial \xi^2} + 3 \frac{\partial \psi^*}{\partial t} - 4 \xi \frac{\partial \psi^*}{\partial \xi} = 0$$

for

$$(1.7) \quad \Psi [x(t, \xi), z(t, \xi)] = \psi^*(t, \xi)$$

The solution of (1.6) is carried out with the set up

$$(2.1) \quad \psi^*(t, \xi) = T(t) \varphi(\xi)$$

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On the Torsion of a Body of Rotation by Axialsymmetric Load
which yields the functions

$$(2.4) \quad \varphi_n(\xi) = \frac{d}{d\xi} [AP_n(\xi) + BQ_n(\xi)]$$

$$(2.5) \quad T_n(t) = e^{-3/2t} \left[C \operatorname{sh} \frac{(2n+1)t}{2} + D \operatorname{ch} \frac{(2n+1)t}{2} \right]$$

$$(2.7) \quad \varphi_k(\xi) = \frac{d}{d\xi} [AP_{-1/2+\mu_k}(\xi) + BQ_{-1/2+\mu_k}(\xi)]$$

$$(2.8) \quad T_k(t) = e^{-3/2t} (C \sin \mu_k t + D \cos \mu_k t)$$

$(\mu_k = \sqrt{\lambda_k^2 - \frac{9}{4}})$

where $P_n(\xi)$, $Q_n(\xi)$ are spherical Legendre functions $P_{-1/2+\mu_k}$, $Q_{-1/2+\mu_k}$ cone functions. The general solution of (1.6) is combined from (2.4) - (2.8) and

$$(2.9) \quad \text{Card } 4/7 \quad e^{-3t}, 1, \frac{\xi}{1-\xi^2} + \frac{1}{2} \ln \frac{1+\xi}{1-\xi}$$

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On the Torsion of a Body of Rotation by Axialsymmetric Load
which are solutions of (1.6) too.

The results obtained are used in order to investigate especially the following cases: 1. Conical wave with torsional moments at the ends and arbitrary torsional load of the lateral faces. 2. Torsion of a hemisphere arbitrarily loaded at the surface. In the first case it is chosen

$$(3.3) \quad \Psi(t, \xi) = A_0 \rho_0^{-3} e^{-3t} + B_0 P'_{-1/2}(\xi) e^{-3/2t} + \\ + \sum_{k=1}^{\infty} B_k P'_{-1/2+k}(\xi) T_k(t) \quad (\xi_1 < \xi < 1, 0 < t < t_1)$$

where

$$(3.4) \quad T_k(t) = e^{-3/2t} \cos(\omega_k t), \quad \omega_k = \frac{k\pi}{t_1} \quad (k = 1, 2, \dots) \\ t_1 = \ln \frac{\sqrt{R_0^2 + b^2}}{\rho_0} = \ln \frac{b}{a}, \quad \rho_0 = \sqrt{r_0^2 + a^2}$$

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On the Torsion of a Body of Rotation by Axialsymmetric Load

In the second case the author chooses

$$\psi^*(t, \xi) = A_0 e^{-3/2t} + e^{-3/2t} \sum_{k=1}^{\infty} [A_k \operatorname{sh} \alpha_k t + C_k \operatorname{ch} \alpha_k t] \varphi_{2k+1}(\xi) +$$

$$(5.3) + B_0 e^{-3/2t} P'_{-1/2}(\xi) + \sum_{k=1}^{\infty} B_k P'_{-1/2}(\xi) T_k(t)$$

$$\left(\begin{array}{l} 0 < t < t_1 \\ 0 < \xi < 1 \end{array} \right) \quad \left(\alpha_k = \frac{4k+3}{2} \right)$$

where $T_k(t)$ are given by (3.4) and $\varphi_{2k+1}(\xi) = \frac{dP_{2k+1}(\xi)}{d\xi}$.

The unknown constants are determined from the boundary conditions.

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C 111/ C 333

On the Torsion of a Body of Rotation by Axialsymmetric Load

A. Sh. Lokshin, N. Ya. Panarin and K. V. Solyanik-Krassa are mentioned.

There are 11 references: 5 Soviet, 3 English, 2 German and 1 American.

ASSOCIATION: Institut matematiki i mekhaniki AN Arm SSR (Institute
of Mathematics and Mechanics AS Arm SSR)

SUBMITTED: July 8, 1960

X

Card 7/7

ABRAMYAN, B.L.

Torsion of conical rods and cylindrical rods with a conical segment. Dokl.AN Arm.SSR 30 no.1:31-38 '60.
(MIRA 13:7)

1. Institut matematiki i mekhaniki Akademii nauk
Armenyanskoy SSR. Predstavleno akademikom AN Armenyanskoy
SSR N.Kh. Arutyunyanom.
(Elastic rods and wires) (Torsion)

ABRAMYAN, B.L.

Torsion of prismatic rods with a cross section in the shape
of a curvilinear angle. Dokl. AN Arm. SSR 31 no.1:9-14 '60.

(MIRA 13:9)

(Elastic rods and wires)

(Torsion)

ABRAMYAN, B. L. Dr. Phys-Math Sc. (diss) "Some Problems of Torsion in Axial-symmetric Deformation of Elastic Bodies." Yerevan-Leningrad, 1961. 15 pp (Acad of Sci Armenian SSR. Institute of Mathematics and Mechanics, Ministry of Higher Education USSR. Leningrad Polytechnical Institute im M. I. Kalinin), 200 copies (KL Supp 12-61, 248).

89483

S/022/61/014/001/003/010
B112/B202

16.7300
AUTHORS:

Abramyan, B. L., Gulkanyan, N. O.

TITLE:

Torsion of a hollow two-layered hemisphere

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, v. 14, no. 1, 1961, 33-40

TEXT: The authors continue a series of torsion studies made by other scientists, especially those by K. S. Chobanyan (torsion of a cylinder with variable diameter), H. Saito and B. A. Kostandyan (torsion of a step-like cylinder), and S. Ch. Das (torsion of a two-layered cone and torsion of spheres and ellipsoids of revolution). The authors study a two-layered hollow hemisphere which is subject to torsion by an arbitrary axisymmetrical stress. The following differential equations are obtained for the displacement functions $\Psi_j^*(r, z)$ in cylindrical coordinates r, z :

$$\frac{\partial^2 \Psi_j^*}{\partial r^2} + \frac{\partial^2 \Psi_j^*}{\partial z^2} + \frac{2}{r} \frac{\partial \Psi_j^*}{\partial r} = 0, \text{ where the indices } j = 1, 2 \text{ refer to the}$$

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Torsion of a hollow...

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layers. Moreover, the displacement functions must satisfy certain boundary conditions. The system of coordinates t, ξ is better adapted to the problem. It is connected with the cylindrical coordinates r, z by the equations

$$\begin{aligned} \xi &= z/\sqrt{r^2 + z^2} \\ r &= c e^t \sqrt{1 - \xi^2}, \quad z = c e^t \xi, \quad t = \ln(\sqrt{r^2 + z^2}/c), \end{aligned}$$

where c is the radius of the parting surface of the layers. In this system of coordinates the differential equations of the displacement function take on the following form:

$$\frac{\partial^2 \Psi_j}{\partial t^2} + (1 - \xi^2) \frac{\partial^2 \Psi_j}{\partial \xi^2} + 3 \frac{\partial \Psi_j}{\partial t} - 4 \xi \frac{\partial \Psi_j}{\partial \xi} = 0, \quad \text{if } \Psi_j^*(r(t, \xi), z(t, \xi)) = \Psi_j(t, \xi).$$

Together with the boundary conditions formulated in this paper, the solutions of these differential equations are displacement functions:

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89483

Torsion of a hollow...

S/022/61/014/001/003/010
B112/B202

$$\varphi_j(t, \xi) = \sum_{k=0}^{\infty} e^{-\frac{3}{2}t} \left\{ (A_{jk} \operatorname{sh} \frac{4k+3}{2} t + B_{jk} \operatorname{ch} \frac{4k+3}{2} t) P_{2k+1}^1(\xi) + D_{jk} \cos a_{jk} t P'_{-\frac{1}{2} + ia_{jk}}(\xi) \right\}, \text{ where the functions } P^1 \text{ are}$$

associated spherical functions ($P^1 = \frac{dP}{dx}$), P' are conical functions, whereas the constants A, B, C, a are determined by the boundary conditions. Finally, the authors derive an equilibrium condition for the moments of torsion to which the hemisphere is subjected. There are 1 figure and 9 references: 6 Soviet-bloc.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics AS Armyanskaya SSR)

SUBMITTED: November 15, 1960

Card 3/3

36022

S/022/62/015/002/003/009
D218/D302

24,4200

AUTHORS: Abramyan, B.L., and Babloyan, A.A.

TITLE: On one case of axially symmetric deformation of a hollow cylinder of finite length

PERIODICAL: Akademiya nauk Armyanskoy SSR, Izvestiya. Seriya fizi-ko-matematicheskikh nauk, v. 15, no. 2, 1962, 87 - 99

TEXT: The authors report an exact solution of the axially symmetric problem of the theory of elasticity for a hollow cylinder of finite length. An arbitrary load is assumed to be applied to the side surface of the cylinder, while normal displacements and tangential stresses are given at the ends. The solution is given in the form of Fourier and Fourier-Dini series. A numerical example of the solution is given. It is pointed out that the previously published solutions were approximate. There are 4 figures, 1 table and 12 references: 10 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: M.A. Binnie, Philosophical Magazine, London 212, 1941, 336-347; D. De Allen, L. Fox and

Card 1/2

On one case of axially symmetric ... S/022/62/015/002/003/009
D218/D302

R.V. Southwell, Phil. Trans. Roy. Soc. London, Ser. A., v. 239,
1946, 501-537.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics, AS Armenian
SSR)

SUBMITTED: October 7, 1961

Card 2/2

38086

29.4200

S/040/62/026/003/009/020
D407/D301

AUTHORS: Abramyan, B.L., and Babloyan, A.A. (Yerevan)

TITLE: On a contact problem involving the twisting of a hollow half-sphere

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 3, 1962, 471 - 480

TEXT: The twisting of a hollow half-sphere by an arbitrary axisymmetric load is considered. The solution of the problem is obtained by means of conic functions. The equation for the displacement function $\mathcal{T}(r, z)$ is

$$\frac{\partial^2 \mathcal{T}}{\partial r^2} + \frac{2}{r} \frac{\partial \mathcal{T}}{\partial r} + \frac{\partial^2 \mathcal{T}}{\partial z^2} = 0. \quad (1.1)$$

Passing to a new coordinate-system, Eq. (1.1) is written:

$$\frac{\partial^2 \psi}{\partial \xi^2} + (1 - \xi^2) \frac{\partial^2 \psi}{\partial \xi^2} + 3 \frac{\partial \psi}{\partial \xi} - 4\xi \frac{\partial \psi}{\partial \xi} = 0 \quad (1.4)$$

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On a contact problem involving

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D407/D301

Solving Eq. (1.4) by the method of separation of variables, one obtains the following particular solutions

$$\psi(t, \xi) = e^{-3t/2} \left[A \operatorname{sh} \frac{(2n+1)}{2} t + B \operatorname{ch} \frac{(2n+1)}{2} t \right] \varphi_n(\xi) \quad (1.6) \quad \checkmark$$

$$\psi(t, \xi) = \frac{d}{d\xi} \left[A P_{-\nu_n + \mu_k t}(\xi) + B Q_{-\nu_n + \mu_k t}(\xi) \right] T_k(t) \quad (1.6)$$

where

$$\varphi_n(\xi) = \frac{d}{d\xi} [C P_n(\xi) + D Q_n(\xi)] \quad (1.7)$$

$$T_k(t) = e^{-3t/2} [C \sin \mu_k t + D \cos \mu_k t]$$

P_n and Q_n are Legendre functions, $P_{-1/2}$ and $Q_{-1/2}$ are conic functions, A, B, C and D are arbitrary constants, n is a positive natural number. Torsion of a hollow half-sphere with radii b and c ($b < c$) is considered; the spherical surfaces and the annular part of the plane $z = 0$ are subjected to tangential stresses, and on the rest of the z-plane the displacements v are given. The boundary conditions are set up. Formulas are obtained for the solution $\Psi(t, \xi)$ (which is

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On a contact problem involving ...

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sought in the regions $t < 0$ and $t > 0$, where $t = \ln(\sqrt{r^2 + z^2}/a)$. In order to satisfy the boundary conditions, the arbitrary functions which enter the formulas for the solution, are expanded in series. The unknown coefficients (in the formulas for $\bar{F}(t, \xi)$), are obtained by solving two infinite systems of linear equations. These systems are regular and have bounded free terms which tend to zero. This makes it possible to determine the unknown coefficients with the required accuracy. By substituting the obtained values of the unknowns in the formulas for $\bar{F}$ and for the stresses and displacements, it is possible to determine the latter (τ and v), at any point of the axial section of the half-sphere. Since the first derivatives of the series for the unknown coefficients are convergent everywhere, except at the point $t = 0, \xi = 0$, the tangential stresses τ are finite at all the points of the axial section, except $(0, 0)$, where a stress concentration takes place in case of rigidly-fixed end. There is 1 figure. +

ASSOCIATION: Institut matematiki i mekhaniki AN ArmSSR (Institute of Mathematics and Mechanics of the AS Armenian SSR)

SUBMITTED: October 17, 1961

Card 3/3

ABRAMYAN, B.L.

A method for solving certain three-dimensional problems in the theory of elasticity. Dokl. AN Arm. SSR 35 no.4:151-159 '62. (MIRA 17:1)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR N. Kh.Arutyunyanom.

ARUTYUNYAN, Nagush Khachaturovich; ABRAMYAN, Benjamin Levonovich;
GEOGDZHAYEV, V.A.O., red.; KRYUCHKVA, V.N., tekhn.red.

[Torsion of elastic bodies] Kruchenie uprugikh tel. Moskva, Fizmatgiz, 1963. 686 p. (MIRA 17:1)

ARUTYUNYAN, N. Kh.; ABRAMYAN, B. L.

"On pressing a rigid punch into an elastic sphere."

report submitted for 11th Intl Cong of Applied Mechanics, Munich, W. Germany,
30 Aug-5 Sep 64.

ABRAMYAN, B.L. (Yerevan); ALEKSANDROV, A.Ya. (Novosibirsk)

"Axisymmetric problems of elasticity"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

ACCESSION NR: AP4042535

S/0022/64/017/003/0055/0063

AUTHOR: Arutyunyan, N. Kh.; Abramyan, B. L.; Dabloyan, A. A.

TITLE: Compression of an elastic sphere stiffened by a rigid ring

SOURCE: AN ArmSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, v. 17, no. 3, 1964, 55-63

TOPIC TAGS: spherical shell, hollow sphere, ring stiffened spherical shell, ring stiffened hollow sphere, elastic spherical shell, elastic hollow sphere

ABSTRACT: A compression of an elastic hollow sphere stiffened on its outer surface by a rigid belt along the equator and subjected to a normal load symmetrical about the axis and equatorial plane is discussed. Stress-strain relationships in the zone of contact are analyzed, with the assumption that there are no tangential stresses on the whole sphere's surface and no mass forces, starting with equilibrium equations in spherical coordinates with Lamé's constants. The solution of the problem is reduced to a determination of the

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ACCESSION NR: AP4042535

coefficients for equations in the form of series containing Legendre's polynomials. A more general case, when the pressing-in of the belt into the shell under action of normal symmetrical compressive loading is taken into account, is also examined. In this case the problem is reduced to "conjugate" equations in series form and solution of the Fredholm's integral equation of the second kind. Orig. art. has: 1 figure and 40 formulas.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics, AN Armenian SSR)

SUBMITTED: 15Apr64

ATD PRESS: 3074

ENCL: 00

SUB CODE: AS

NO REF SOV: 008

OTHER: 011

Card 2/2

ARUTYUNYAN, N.Kh.; ABRAMYAN, B.L.; BABLOYAN, A.A.

Compression of an elastic sphere with a rigid ring-shaped rim.
Izv.AN Arm.SSR.Ser.fiz.-mat.nauk 17 no.3:55-63 '64. (MIRA 17:9)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

ABRAMYAN, B.L. (Yerevan); ARUTYUNYAN, N.Kh. (Yerevan); BABLOYAN, A.A.
(Yerevan)

Two contact problems for an elastic sphere. Prikl. mat. i
mekh. 28 no.4:622-629 J1-Ag '64 (MIRA 17:8)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

AUTHOR: Arutyunyan, N. Kh. (Yerevan); Abramyan, B. L. (Yerevan)

TITLE: Pressing of a rigid die into an elastic sphere

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 6, 1964, 1101-1105

TOPIC TAGS: spheric shell structure, polynomial equation, series

Translation: The article analyzes the problem of a rigid die pressed into an elastic sphere. The problem is solved by the method of series expansion. The article contains a series of infinite systems of linear equations. As an example, the compression of an elastic sphere under a uniformly distributed load is considered for the case in which the lower half of the sphere is resting in a spherical hemispherical bowl. The article contains a series of

ACCESSION NR: AP5008510

ASSOCIATION: none

SUBMITTED: 10Jul64

ENCL: 00

SUB CODE: ME, NA

NO REF SOV: 005

OTHER 000

JPRS

L 29105-66

ACC NR: AP6019383

SOURCE CODE: UR/0040/66/030/001/0143/0147

AUTHOR: Abramyan, B. L. (Yerevan); Arutyunyan, N. Kh. (Yerevan); Babloyan, A. A. (Yerevan) 30
B

ORG: none

TITLE: Symmetric pressure of a circular die on an elastic half-space with linkage

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 1, 1966, 143-147

TOPIC TAGS: boundary value problem, harmonic function, Bessel function, Fourier transform, integral equation, die

ABSTRACT: The article considers the problem of the symmetric pressure of a rigid circular die on an elastic half-space with linkage. A system of cylindrical coordinates is used to solve the problem. Love's biharmonic stress function is sought in the form of a Hankel integral. The determination of arbitrary integration functions is reduced to a system of two "paired" integral equations containing Bessel functions of the first kind. The solution of this system by means of the Fourier transform is reduced to Privalov's boundary value problem and is expressed by means of quadratures. The results of I. M. Rapoport are used. A solution can be obtained similarly for the case in which there is no axial symmetry. Orig. art. has: 21 formulas. [JPRS]

SUB CODE: 12, 13 / SUBM DATE: 12Nov65 / ORIG REF: 009/ OTH REF: 004

Card 1/1 CC

KAZARYAN, V.O.; ABRAMYAN, B.M.

Stage change of the vascular system in woody plants. Dokl.AN
Arm.SSR 22 no.3:129-134 '56. (MLRA 9:8)

1. Botanicheskiy institut Akademii nauk Armyanskoy SSR. Pred-
stavleno G.Kh. Buniatyandm.
(Botany--Physiology)

PALANDZHYAN, V.A.; KHURSHUDYAN, P.A.; ABRAMYAN, B.M.

Effect of defoliation on the formation of annual rings in the
red ash. Izv. AN Arm.SSR. Biol.nauki 13 no.1:85-92 Ja '60.

(MIRA 13:7)

1. Botanicheskiy institut Akademii nauk ArmSSR.
(ASH (TREE)) (DEFOLIATION) (TREE RINGS)

ACC NR: AP6036442

SOURCE CODE: UR/0370/66/000/006/0110/0113

AUTHOR: Abramyan, E. A. (Moscow); Ivanov, L. T. (Moscow)

ORG: none

TITLE: Effect of ordering on high-temperature creep of iron-aluminum alloys

SOURCE: AN SSSR. Izvestiya. Metally. no. 6, 1966, 110-113

TOPIC TAGS: alloy, iron aluminum alloy, creep, metallurgy, high temperature creep, high temperature alloy creep, creep mechanism

ABSTRACT: Results are presented of an investigation of the effect of ordering on high-temperature creep in iron aluminum alloys containing 26.6 and 29.5 at. % aluminum under various applied stresses. The extent of creep was determined by the torsion method, using an IMET-4K machine. The rate of creep at various stresses and temperatures was established by the temperature cycle method.

SUB CODE: 11/SUBM DATE: 19May65/ORIG REF: 003/OTH REF: 006/

[SP]

Card 1/1

UDC: 669.15'71

L 42941-66 EWT(m)/SWP(w)/T/ENP(t)/ETI IJP(c) JD/WW/JB

ACC NR: AP6029682

SOURCE CODE: UR/0369/66/002/004/0422/0425

AUTHOR: Abramyan, E. A.; Ivanov, L. I.; Kudryavtsev, N. S.; Yanushkevich, V. A.

ORG: Institute of Metallurgy im. A. A. Baykov, AN SSSR, Moscow (Institut metallurgii AN SSSR)

TITLE: Effect of vacuum on the creep of 8-zirconium at high temperature

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 4, 1966, 422-425

TOPIC TAGS: zirconium, creep, vacuum ^{techniques} effect, ~~zirconium~~ rupture ~~life~~ strength

ABSTRACT: The effect of vacuum (10^{-6} to 10^{-1} mm Hg) on the creep rate and rupture life of zirconium at 1100—1300C and under stresses of 5—30 kg/mm² has been investigated. In a vacuum of about 10^{-5} at 1200C, the creep rate was constant for more than 10 hr. The specimens did not fail and the material was very ductile. With the pressure in the vacuum chamber increased to 10^{-4} mm Hg, the creep rate was found to decrease continuously with time. Simultaneously with a drop of ductility, the rupture life decreases and the failure occurs in a very short time. The negative effect of higher pressure on rupture life and ductility becomes more intensive with increasing temperature and stress. Orig. art. has: 3 figures. [WW]

SUB CODE: 11/ SUBM DATE: 28Feb66/ ORIG REF: 005/ OTH REF: 005/ ATD PRESS: 5069

Card 1/1 MLP

USSR / Human and Animal Physiology. Digestion, Stomach.

T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70257

Author : Abramyan, E. G.

Inst : Academy of Sciences Armenian SSR

Title : The Influence of the Kidneys and Brain of Cattle on the
Gastric Secretion of Dogs

Orig Pub : Aykakan SSR Gitutyunneri Akademiai Togokagir. Biologiakan
ov Gyukhatntosakan Gitutyunnor, Isz. AN Arm SSR. Biol. i
S.-Kh. N., 1957, Vol 10, No 12, 17-23

Abstract : In dogs with isolated stomachs of the Pavlov type, the
feeding of raw and boiled brain led to a weaker secretion
of gastric juice, with a feebler digestive strength and a
higher acidity, than the feeding of meat. Feeding of raw
and boiled kidneys produced a stronger secretion with a
higher acidity and greater digestive strength than did
meat feeding.

Card 1/1

ABRAHYAN, E.G., Cand. Vet Sci -- (dis.) *one of* "Methods for studying
for ~~alimentary~~ *does* subproducts of ~~flax~~ *flax* cattle and a physiological
evaluation of their *nutritional* ~~alimentary~~ qualities." Yerevan, 1959,
28 pp (Min of Agr USSR. Yerevan Zoological Vet Inst) 120
copies (KL, 35-59, 115)

- 51 -

KAMALYAN, G.V.; ABRAMYAN, E.G.; MNATSAKANZAN, A.A.

Investigating the aminoacid composition of the proteins of blood serum atrophic rhinitis of swine. Izv. AN Arm. SSR. Biol. nauki 15 no.1:53-57 Ja '62. (MIRA 15:2)

1. Laboratoriya obmena veshchestv Zooveterinarnogo instituta.
(BLOOD PROTEINS) (SWINE DISEASES AND PESTS)

ABRAMYAN, E.S.

Effect of bovine kidneys and brain on the gastric secretion of
the dog. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki 10 no.12:17-23
D '57. (MIRA 11:2)

1.Yerevanskiy zooveterinarnyy institut.
(STOMACH—SECRETIONS) (KIDNEYS) (BRAIN)

STURMAN, A.V., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); BULGAKOV, Yu.N., veter. fel'dsher (Strashenskiy rayon, Moldavskaya SSR); KAL'NITSKIY, P.I., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); OCHAKOVSKIY, Z.M., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); GOTSENOGA, A.D. (Strashenskiy rayon, Moldavskoy SSR); ABRAM-YAN, G.I., veter. vrach; MEKHTIYEV, M.G., veter. fel'dsher (s.SHI-FÖZLU, Vedinskogo rayona Armyanskoy SSR); KIRAKOSYAN, A.A., veter. vrach; GEORGIYEV, Yu.P., veter. vrach; LOMAKIN, A.M., nauchnyy sotrudnik; SHEPELEV, L.A., veter. vrach.; TARASOV, I.I., assistant; ROMASHKIN, V.M., veter. tekhnik; ANDRIYAN, Ye.A.; BARTENEV, V.S.; KOROL', Ye.I., veter. tekhnik; YEROSHENKO, A.K., aspirant; BANZEN, Ya.P.; SARAYKIN, I.M., prof.; ZHEVAGIN, A.N., veter. vrach; BUT'-YANOV, D.D., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti BSSR); SHALYGIN, B.V., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti, BSSR); RYABOKON, G.T., veter. fel'dsher; MOVSUM-ZADE, K.K., prof.; DUGIN, G.L., aspirant; TITOV, G.I., nauchnyy sotrudnik; MEDVEDEV, I.G., veter. vrach.; ALIKAYEV, V.A.; ALLENOV, O.A., veter.vrach.

Prophylaxis and treatment of noninfectious diseases in calves and piglets. Veterinariia 40 no.2:40-47 F '63. (MIRA 17:2)

1. Ul'yanovskaya oblastnaya veterinarno-bakteriologicheskaya laboratoriya (for Sturman). 2. Kolkhoz imeni Kirova. Volokonovskogo
(Continued on next card)

ABRAMYAN, G. S.

"Role of Russian Geographical Science in the Study of Armenia." CandGeog
Sci, Yerevan State U imeni V. M. Molotov, Min Higher Education USSR, Yerevan,
1954. (KL, No 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

ABRAMYAN, G.S.

Fluvio-glacial sediments in the Armenian S.S.R. Izv. AN Arm. SSR.
Geol. geog. nauki 15 no. 6: 67-71 '62. (MIRA 16:2)

1. Institut geologicheskikh nauk AN Armyanskoy SSR,
sektor geografii.

(Armenia--Drift)

ABRAMYAN, G.S.; BAGDASARYAN, A.B.

Importance of V.I. Vernadskii's works for modern physico-geographical studies. Izv. AN Arm. SSR. Geol. i geog. nauki 16 no. 3: 87-92 '63, (MIRA 17:2)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.

L 34848-65 EPA(s)-2/EWT(m)/EPF(c)/EWG(v)/EPR/EPA(w)-2/EWP(j) Pc-4/Pab-10/Pa-5/Pr-4/
 S/0286/65/000/006/0061/0061
 ACCESSION NR: AP5008546 Ps-4/Pt-10 WW/RM

AUTHOR: Alekseyenko, V. I.; Pokrovskiy, N. I.; Mishustin, I. U.; Lebedev, Yu. I.;
 Kudryavtsev, V. V.; Levin, B. I.; Abramov, I. A.; Reks, V. B.; Bernshteyn, L. M.;
 Kuznetsova, L. I.; Tsyapkina, L. A.; Zhuravskaya, L. I.; Luginina, V. A.

TITLE: A method for producing insulating plastics, Class 39, No. 169246

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 61

TOPIC TAGS: plastic insulator, polar polymer, nonpolar polymer

ABSTRACT: This Author's Certificate introduces a method for producing insulating plastics based on polyvinylchloride modified with rubber. The electrical insulation properties and heat resistance of the product are improved by using a mixture of polar and nonpolar rubbers as the modifiers with the addition of mineral fillers.

ASSOCIATION: none

SUBMITTED: 31Mar61

ENCL: 00

SUB CODE: NT,GC

NO REF SOV: 000

OTHER: 000

Cord 1/1

ABRAMYAN, K. G.

ABRAMYAN, K. G.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Protection of the Contact Network Against Short-Circuit Currents."
30 June 1952. A system is proposed for protecting the contact network against short-circuit currents, which functions on an increase in current. On the basis of theoretical and experimental investigations, a procedure is given for calculating and selecting individual elements of protection.

SO: M-1048, 28 Mar 56