

**Professor, Dr. David Natroshvili**

## **FULL LIST OF PUBLICATIONS**

### **I. Scientific works**

1. Explicit solutions to the basic boundary value problems of elastostatics for an isotropic ball. Tr. In-ta Prikl. Mat. Tbilis. Univ., 3, 1972, 127-140.
2. Explicit solutions to the third and the fourth boundary value problems of elastostatics for a ball. Soobshch. Akad. Nauk Gruz. SSR. 63(3), 1972, 557-560.
3. Some fundamental and mixed type boundary value problems for a semi-ball. Annot. Dokl. Sem. In-ta Prikl. Mat. Tbilis. Univ., 8, 1973, 9-18.
4. The basic contact problem for a sphere. Annot. Dokl. Sem. In-ta Prikl. Mat. Tbilis. Univ., 8, 1973, 19-22.
5. Explicit solutions to boundary and boundary-contact value problems of elastostatics. Candidate Thesis. Tbilisi University, 1973, 140pp.
6. Explicit solutions to the basic three-dimensional statical problems of thermoelasticity for concrete domains. Konferenz. Molod. Uch. Aspirant. In-ta Prikl. Mat. Tbilis. Univ., 1974, 107-108.
7. Explicit solutions to the basic boundary value problems of the non-symmetric theory of elasticity for a half-space. Soobshch. Akad. Nauk Gruz. SSR, 76(1), 1974, 57-60.
8. Analogies of Poisson and Dini formulas in the thermoelasticity for a sphere. Annot. Dokl. In-ta Prikl. Mat. Tbilis. Univ., 10, 1975, 55-58.
9. Solutions to the basic boundary value problems of statics of the non-symmetric theory of elasticity for a ball. Annot. Dokl. In-ta Prikl. Mat. Tbilis. Univ., 10, 1975, 49-53 (A. Djagmaidze).
10. On the uniqueness of solutions to the Cauchy problem in the non-symmetric theory of elasticity. Nekot. Zad. Teor. Uprug., Sbornik Tr., Tbilisi, 1975, 21-28 (M. Basheleishvili).
11. General representation of a solution to the static equations of non-symmetric theory of elasticity and some applications. Nekot. Zad. Teor. Upr., Sbornik Tr., Tbilisi, 1975, 93-112 (A. Djagmaidze).

12. Explicit solutions to the basic boundary value problems for the biharmonic equation in exterior to a circle and a ball by means of Green's functions. Tr. Tbilis. Univ., 166, 1976, 30-35.
13. Solution to the Cauchy problem of the equations of the non-symmetric theory of elasticity. Annot. Dokl. Sem. In-ta Prikl. Mat. Tbilis. Univ., 11, 1976, 45-50.
14. Existence theorems of solutions to the basic boundary value problems of elasticity for transversally isotropic bodies. Dokl. Akad. Nauk. SSSR, 231(1), 1976.53-57 (M. Basheleishvili).
15. Solutions to the basic boundary value problems of statics of the non-symmetric theory of elasticity for a half-space by Fourier method. Annot. Dokl. Sem. In-ta Prikl. Mat. Tbilis. Univ., 11, 1976, 5-18.
16. On the uniqueness theorem of solutions to the Cauchy problem in anisotropic elasticity. Soobshch. Akad. Nauk Gruz. SSR, 85(2), 1977, 321-324.
17. Solution to the Cauchy problem in the anisotropic elasticity. Soobshch. Akad. Nauk Gruz. SSR, 85(1), 1977, 49-52.
18. Some static and dynamic problems of the theory of elasticity for piecewise homogeneous bodies. The Third National Congress in Theoretical and Applied Mechanics, Varna 13-16 Sept., Proc. I, Sophia, 1977, 551-555 (A. Djagmaidze).
19. General representation of solutions to the steady state oscillation equations of the non-symmetric theory of elasticity and applications in dynamic Problems. Tr. In-ta Prikl. Mat. Tbilis. Univ., 5-6, 1978, 225-234.
20. Estimate of Green's tensors of the theory of elasticity. Differentsial'nye Uravnenia, XIV, 7, 1978, 1272-1284.
21. Maximum principle in the non-symmetric theory of elasticity. Differentsial'nye Uravnenia, XIV, 9, 1978, 1649-1658.
22. Dynamic problems of the theory of elasticity for piecewise homogeneous bodies. Tbilisi University, Tbilisi, 1978, 64pp. (A. Djagmaidze).
23. Estimate of Green's tensors of the theory of elasticity and their applications. Tbilisi University, Tbilisi, 1978, 135pp.
24. Dynamic problems of the theory of elasticity for homogeneous anisotropic bodies. Tr. Tbilis. Univ., 204, 1978, 24-46 (M. Basheleishvili).
25. On fundamental matrices of steady state oscillation and pseudo-oscillation equations of anisotropic elasticity. Soobshch. Akad. Nauk Gruz. SSR, 96(1), 1979, 49-52.

26. Limiting absorption principle in the anisotropic elasticity. Soobshch. Akad. Nauk Gruz. SSR, 96(2), 1979, 309-312.
27. Some contact problems for piecewise homogeneous bodies. All-Union Conf. in the Theory of Elasticity. Abstracts. Erevan, 13-16 November, 1979, 242-245 (A. Djagmaidze, M. Svanadze).
28. Application of the singular integral equation method in the boundary value problems of the theory of elasticity for transversally isotropic bodies. In: Differential and Integral Equations, Boundary Value Problems. Tbilisi University, Tbilisi, 1979, 11-32, (M. Basheleishvili).
29. Solutions of dynamic problems for a ball. Nekot. Zad. Teor. Upr., Sbornik Tr., Tbilisi, 1980, 72-88.
30. Solutions to the basic dynamic problems of the non-symmetric theory of elasticity for a ball and spherical layer. Nekot. Zad. Teor. Upr., Sbornik Tr., Tbilisi, 1980, 89-104 (A. Djagmaidze).
31. Boundary-contact value problems of the elasticity theory. Tbilisi University, Tbilisi, 1980, 88pp. (A. Djagmaidze, M. Svanadze).
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33. On the alternative version of proving the existence theorems in exterior problems of the steady state oscillation theory. Tr. In-ta Prikl. Mat. Tbilis. Univ., 10, 1981, 90-98.
34. On an integral equation of the first kind. Soobshch. Akad. Nauk Gruz. SSR, 102(3), 1981, 565-568.
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36. Basic boundary and boundary-contact value problems of anisotropic elastostatics. Tbilisi University, Tbilisi, 1981, 84pp (M. Svanadze).
37. Explicit solutions to the dynamic problems of the anisotropic elasticity theory. Soobshch. Akad. Nauk Gruz. SSR, 104(2), 1981, 313-316 (M. Svanadze).
38. Dynamic contact problems of the elasticity theory for piecewise homogeneous bodies. Conf. in: Mechanics and Theory of Elasticity, Telavi, 30 Sept.-5 Oct., 1981, Abstracts, Tbilisi, 1981, 62-63 (M. Svanadze).

39. Investigation of boundary-contact value problems of statics of the non-symmetric theory of elasticity. Conf. in Mechanics and Theory of Elasticity, Telavi, 30 Sept. – 5 Oct., 1981. Abstracts, Tbilisi, 1981, 62-63 (A. Djagmaidze).
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41. Existence theorems in the exterior problems of steady state oscillation theory for anisotropic medium. Soobshch. Akad. Nauk Gruz. SSR, 106(1), 1982, 33-36.
42. Basic dynamic problems of the thermoelasticity theory for anisotropic layer. Conf. in Applied Mathematics and Mechanics, 19-20 Novemb., 1981, Abstracts, Tbilisi, 1983, 129-134.
43. Boundary-contact value problems of the non-symmetric theory of elasticity. Tr. In-ta Prikl. Mat. Tbilis. Univ., 12, 1983, 69-90 (A. Djagmaidze).
44. Potential method in the anisotropic thermoelasticity. 8 Tagung Uber Probleme und Methoden der Mathematische Physik. Vortragsauszuge 8 TMP. Technische Hochschule Karl-Marx-Stadt. 1983, 37.
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48. Investigation of boundary value and initial boundary value problems of the mathematical theory of anisotropic elasticity and thermoelasticity by potential method. Doctor thesis, Tbilisi Institute of Mathematics (Georgian Academy of Sciences), Tbilisi, 1984, 325pp.
49. Equilibrium of a half-space with a spherical cavity. Tr. In-ta Prikl. Mat. Tbilisi. Univ., 16, 1985, 149-154.
50. On the regularization if a integral equation of the first kind. Soobshch. Akad. Nauk Gruz. SSR, 117(3), 1985, 501-504.
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52. On some boundary-value problems of the theory of elastic mixtures. Tr. Sem. I. Vekua In-ta Prikl. Mat. Tbilis. Univ. 22-25 Apr., 1986. Tbilisi, 1986,87-90.
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54. Problems of the linear theory of elastic mixtures. Tbilisi University, Tbilisi, 1986, 215pp. (A. Djagmaidze, M. Svanadze).
55. The third and the fourth boundary value problems of the theory of elasticity for anisotropic bodies. Tr. In-ta Prikl. Mat. Tbilis. Univ., 23, 1988 89-104.
56. Investigation of the third and the fourth boundary value problems of the anisotropic elasticity. All-Union Symposium: "Modern Problems of Mathematical Physics", Tbilisi, 22-24 April, 1987. Proceedings, Vol. 2, Tbilisi, 1988, 285-294.
57. Potential methods in the theory of elastic mixtures. 9 Tagung Uber Probleme und Methoden der Mathematischen Physik. Autorreferate der Kurzvortrage. Karl-Marx-Stadt, 1988, 30.
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61. Basic boundary value problems of the mathematical theory of cracks for anisotropic medium. Proc. of Seminar of I.Vekua Institute of Tbilisi University, Tbilisi, 1989, 87-90 (R. Duduchava, E. Shargorodsky).
62. Exterior boundary-contact value problems of steady state oscillations of anisotropic bodies. IV Conf. on Differential Equations and Applications, 13-19 Aug., 1989, Rousse, Abstracts, 211.
63. Exterior boundary value problems for differential equations of steady state oscillations of anisotropic elasticity. Proc. of the International Conf. on Differential Equations and Applications held in Rousse, Bulgaria, 13-19 Aug., 1989, Rousse, 1991, 444-455.

64. Method of generalized series in anisotropic elasticity. Tr. In-ta Prikl. Mat. Tbilisi Univ. , 39, 1990, 110-132.
65. Boundary value problems of the mathematical theory of cracks. Tr. In-ta Prikl. Mat. Tbilisi Univ., 39, 1990, 68-84 (R. Duduchva, E. Shargorodsky).
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67. Three-dimensional problems of dynamics for elastic bodies with cuts. Soobshch. Akad. Nauk Gruz.SSR, 140(2), 1990, 281-284 (E. Shargorodsky).
68. Mixed type boundary value problems of steady state oscillations for anisotropic bodies. Conf. in: Dynamics of Solid Bodies and Stability of Motion, 1990, Donetsk, 57-58 (E. Shargorodsky).
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100. General transmission problems in the theory of elastic oscillations of anisotropic bodies, Conference on Analysis, Numerics and Application of Differential and Integral equations, Stuttgart, October 9–11, 1996, Abstracts, University of Stuttgart, 1996 (L.Jentsch, W.L.Wendland).
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110. Non-local approach in mathematical problems of fluid-structure interaction, (TU Chemnitz, Fakultät für Mathematik, Preprint 98-1, 1998) Mathematical Methods in the Applied Sciences, 22, 13-42, 1999. (L. Jentsch)

111. Three-dimensional mathematical problems of thermoelasticity of anisotropic bodies, TU Chemnitz, Fakultät für Mathematik, Preprint 98-3, 1998. (L. Jentsch)
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113. General transmission problems in the theory of elastic oscillations of anisotropic bodies (Basic interface problems), I, Journal of Mathematical Analysis and Applications, 220, 397-433, 1998. (L. Jentsch, W. Wendland)
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125. Boundary variational inequality approach in the elasticity for the Signorini problem, *Georgian Mathematical Journal*, Vol. 8, No. 3 (2001), 469–492 (A.Gachechiladze)
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136. Mathematical problems of the theory of elasticity of chiral materials for Lipschitz domains (I.Stratis) (to appear)
137. Boundary-domain integro-differential equations (O.Chkadua, S.Mikhailov) (to appear)
138. Boundary variational inequalities in the theory of interface crack problems. In: Operator Theory: Advances and Applications, Vol. 147, Operator Theoretical Methods and Applications to Mathematical Physics (Erhard Meister Memorial Volume), Birkhäuser Verlag, Basel-Boston-Berlin, 2004, 387-402. (W.L.Wendland)
139. Mathematical problems related to the interaction of metallic and piezoelectric elastic materials. (T.Buchukuri, O.Chkadua, A.-M. Säendig) (to appear as preprint)
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141. Two-dimensional hierarchical models for prismatic shells with thickness vanishing at the boundary, (G.Jaiani, S.Kharibegashvili, W.L.Wendland) (to appear in "Journal of Elasticity")

## II. Text books

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4. *Engineering Mathematics*, Georgian Technical University, Tbilisi (O.Zumburidze, T.Davitashvili, S.Ebraligze, M.Miminoshvili, G.Mchedlidze, G.Samsonadze), Global Print, Tbilisi, 2001.
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