

CURRICULUM VITAE  
of  
Ivane Tsagareli

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Last name: Tsagareli  
First name: Ivane  
Date of birth: June 24, 1942  
Place of birth: Tbilisi, Republic of Georgia.

EDUCATION

Student of Tbilisi State University (TSU), faculty of Mechanics and Mathematics .January 1966,  
Diploma in Mechanics.  
Ph.D. (Candidate of Sciences) in Mechanics of Deformable Bodies Iv. Javakhishvili Tbilisi State  
University, 1984; Thesis: “Effective solutions of boundary, boundary-contact and mixed  
boundary value problems of the classical theory elasticity and thermoelasticity”. “(Advisors:  
Professor M. Basheleishvili and Professor D. Natroshvili).

PH.D. STUDENT

Post graduate student D. Toradze (1999) have finished.

LANGUAGES SPOKEN

Georgian (native), Russian, German.

EMPLOYMENT

1968-1969 – Mathematician-programmer  
1969-1988 - Junior researcher at the I. Vekua Institute of Applied Mathematics;  
1988-2009 - Senior researcher at the I. Vekua Institute of Applied Mathematics;  
2009- present - Researcher at the I. Vekua Institute of Applied Mathematics.

RESEARCH INTEREST

The Theory of Elasticity and Thermoelasticity. Explicit and Numerical solutions of BVPs.

GRANTS

1. Grant of Georgian National Science Foundation (Project GNFS / ST 06/3-033, 2006-2009);
2. Grant of Georgian National Science Foundation (Project GNFS / ST 08/3-388, 2009-2012).

EDITED BOOK

მერაბ სვანაძე. ელემენტარული მათემატიკა საბანკო საქმეში. ილიას სახელმწიფო  
უნივერსიტეტი, თბილისი, 2010.

## BOOK REVIEWER

დ. ნატროშვილი, ლ. გიორგაშვილი, მ. უსანეთაშვილი, გ. ჯაშიაშვილი. მათემატიკა ეკონომისტებისათვის. გამომცემლობა „გლობალ-პრინტი“, თბილისი, 1999.

## RELATIONSHIP WITH THE SCHOOL

Published:

1. დ. თორაძე, ი. ცაგარელი. ალგებრა მე-7 კლასის სახელმძღვანელო. „გამომცემლობა განათლება“, თბილისი, 2004 (რედაქტორი პროფ. დ. ნატროშვილი)
2. დ. თორაძე, ი. ცაგარელი. ალგებრა VIII კლასის სახელმძღვანელო. „გამომცემლობა განათლება“, თბილისი, 2005.
3. დ. თორაძე, ი. ცაგარელი. ალგებრა VII, მასწავლებლის წიგნი, „გამომცემლობა განათლება“, თბილისი, 2004.
4. დ. თორაძე, ი. ცაგარელი. ალგებრა VIII, მასწავლებლის წიგნი, „გამომცემლობა განათლება“, თბილისი, 2005.

Prepared for publication:

1. დ. თორაძე, ი. ცაგარელი. მათემატიკა VII კლასის სახელმძღვანელო.
2. დ. თორაძე, ი. ცაგარელი. მათემატიკა VIII კლასის სახელმძღვანელო.
3. დ. თორაძე, ი. ცაგარელი. მათემატიკა IX კლასის სახელმძღვანელო.

Translated from Russian. Published more than 20 books. Including:

1. ნ. ვილენკინი, ა. ჩესნოკოვი, ს. შვარცბურდი. მათემატიკა, სახელმძღვანელო საშუალო სკოლის მე-4 კლასისათვის, გამომცემლობა „განათლება“, თბილისი, 1984.
2. კ. ნემკოვი, ვ. რუდნიცკაია, ა. სემუშინი, ა. ჩესნოკოვი, ს. შვარცბურდი. მათემატიკა მე-5 კლასში, მეთოდური სახელმძღვანელო მასწავლებელთათვის, გამომცემლობა „განათლება“, თბილისი, 1979 (თარგმანი ნ. კარტოზიასთან ერთად).
3. ი. მაკარიჩევი, ნ. მინდიუკი, კ. მურავინი, ს. სუვოროვა, მ. ლეონტიევა. ალგებრა VII კლასში, მასწავლებლის დასახმარებლად. გამომცემლობა „განათლება“, თბილისი, 1975.
4. ა. კოლმოგოროვი, ბ. ვეიცი, ი. დემიდოვი, ო. ივაშევ-მუსატოვი, ს. შვარცბურდი. ალგებრა და ანალიზის საწყისები, მე-9 კლასის სახელმძღვანელო. გამომცემლობა „განათლება“, თბილისი, 1976 (თარგმანის რედაქტორი პროფ. თ. გეგელია).
5. ა. კოლმოგოროვი, ა. აბრამოვი, ბ. ვეიცი, ო. ივაშევ-მუსატოვი, ბ. ივლევი, ს. შვარცბურდი. ალგებრა და ანალიზის საწყისები საშუალო სკოლის X-XI

- კლასების სახელმძღვანელო, მეჩვიდმეტე გამოცემა. გამომცემლობა „განათლება“, თბილისი, 2006 (თარგმანი რ. ქათამაძესთან ერთად).
6. ი.მაკარიჩევი, ნ.მინდიუკი, ვ.მონახოვი, კ.მურავინი, კ.ნემკოვი, ს.სუვოროვა, ალგებრა, საშუალო სკოლის მეცხრე კლასის სახელმძღვანელო. „გამომცემლობა განათლება“, თბილისი, 2000 (თარგმანი ი.ხუციშვილთან ერთად).
  7. ბ.ივლევი, ა.კრისინი, კ.მურავინი, ვ.რუდენკო, ა.სოკოლოვა. დიდაქტიკური მასალები ალგებრასა და ანალიზის საწყისებში, მე-9 კლასისათვის. გამომცემლობა „განათლება“, თბილისი, 1977.
  8. ა.პოგორელი. გეომეტრია, სახელმძღვანელო საშუალო სკოლის YI-X კლასებისათვის, გამომცემლობა „განათლება“, თბილისი, 1983, (თარგმანი ი.ხუციშვილთან ერთად, თარგმანის რედაქტორი პროფ. ფ. ხარშილაძე) .
  9. ვ. კლოპსკი, ზ.სკოპეცი, მ.იაგოდოვსკი. გეომეტრია, საშუალო სკოლის მე-10 კლასის სახელმძღვანელო. გამომცემლობა „განათლება“, თბილისი, 1977.
  10. ა.კოლმოგოროვი, ა.სემიონოვიჩი, რ.ჩერკასოვი. გეომეტრია, სახელმძღვანელო საშუალო სკოლის YI-YIII კლასებისათვის, გამომცემლობა „განათლება“, თბილისი, 1981 (თარგმანი რ.დანელიასთან ერთად).

## PARTICIPATION IN CONFERENCES AND OTHER SCIENTIFIC FORUMS

- 1..YII International Joint Conference of Georgian Mathematical Union and Georgian mechanical Union, 5-9 September, **2016**, Batumi.
2. Georgian mechanical Union, Y Annual Meeting of the Georgian Mechanical Union, 8-10 October, **2014**, Tbilisi.
3. Second International Conference “Modern Problems in Applied Mathematics”, Book of Abstracts. Tbilisi, September, **2013**.
4. III International conference of the Georgian Mathematical Union, Batumi, September 2-9, **2012**.
5. II International conference “Non-classic problems of mechanics”, Kutaisi, October, **2012**.
6. International Conference GAMM 2011, 18-21 April, **2011**, Graz, Austria.
7. International Conference GAMM 2010, 22-26 March, 2010, Karlsruhe, Germany, **2010**.
8. 2-nd International Scientific and Technical Conference “Architecture and Construction-contemporary problems problems”, 30 September-3 October, **2010**, Yerevan-Jermuk.

9. International Conference “Analytic Methods of Mechanics and Complex Analyses” dedicated to N.A. Kilchevskii and V.A. Zmorovich of the occasion of their Birthday centenary, Ukraine, Kiev, 29 June -5 July **2009**.
10. International Conference on Modern Problems in Applied Mathematics, Dedicated to the 90<sup>th</sup> Anniversary of the Iv.Javakhishvili Tbilisi State University & 40<sup>th</sup> Anniversary of the I. Vekua Institute of Applied Mathematics, 7-9 October ,**2008**, Tbilisi.
11. International Scientific and Technical Conference “Architecture and Construction-topical problems”,15-18 October **2008**, Yerevan-Jermuk..
12. International conference “Non classic problems of Mechanics”, 25-27.10, **2007**, Kutaisi.
13. International ISAAC conference”Complex Analysis, Partial Differential Equations and Mechanics of Continua”, 23-27 April **2007**, Tbilisi..
14. Enlarged Sessions of the seminar of I.Vekua Institute of Applied Mathematics, **2016; 2015; 2014; 2012; 2011; 2010; 2009; 2008; 2005; 2003; 1999**.
15. Республиканская конференция ин-та прикл. мат. и мех. АН УССР, Донецк. **1990**.
16. Региональная конференция «Динамические задачи механики сплошной среды, теор. и прикл. вопросы вибрационного просвечивания земли». Краснодар. **1990**.

#### LIST OF PUBLICATIONS

1. Цагарели И. Эффективное решение основных граничных задач термоэластостатики для круга и бесконечной плоскости с круговым отверстием. Сб. «Некоторые задачи теории упругости». ИПМ ТГУ, 1975, 125- 141.
- 2.Tsagareli I. Effective solving of the first and the second basic mixed problems of dynamics for isotropic elastic circle. Tbilisi University Press, 1977 (Russian).
- 3\*. Цагарели И., Меладзе Р. Вычисление регулярного решения первой основной граничной задачи термоэластостатики для круга. ГФАП СССР. Алгоритмы и программы. Москва.Информац. бюлл. №4(18),1977.
4. Tsagareli I. The effective solution of boundary contact value problems of thermoelastostatics. Some problems of the theory elasticity. Tbilisi University Press, 1980-pp. 129-149 (Russian).
5. Гиоргашвили Л., Цагарели И., Меладзе Р., Бакрадзе И. Решение основных гранично-контактных задач теории упругости в случае многослойного бесконечного цилиндра. Сб.»Некоторые задачи теории упругости « ИПМ ТГУ , 1980, 39- 55 .

6. Tsagareli I. The solutions of basic dynamical boundary-contact value problems for multilayer circles and rings. Some problems of the theory elasticity. Proceedings of Y. N. Vekua Institute of Appl. Math. 1981. v. 10, pp. 232-249 (Russian).
7. Tsagareli I., Meladze R. Calculation of the regular solutions of some static boundary value problems in the theory of elasticity. Some problems of the theory elasticity. Proceeding of I.N.Vekua Institute of Appl. Math. 1981. v. 10, pp. 217-231 (Russian).
8. Цагарели И. Решение третьей и четвертой основных граничных задач эластостатики для шара. Тезисы докл. конф. молодых уч. Тбилиси. 1981, 172- 173.
- 9\*. Башелейшвили М., Цагарели И. Эффективное решение основных граничных задач эластостатики внутри и вне шара. Сообщ. АН ГССР . 1982, т. 108, №1, 41- 44.
10. Цагарели И. Решение некоторых контактных задач статики теории упругости Аннот. докл. респ. школы- конф. по общей мех. и т. упр. Телави. 1981, 12- 13.
11. Вывод расчетных формул для решения основных гранично-контактных задач теории упругости в случае многослойного бесконечного цилиндра. Задание Гос. ком. Сов. Мин. СССР по науке и технике 1976 – 1979 гг. (Зачисл. в Респ. фонд Алг. и программ. 1980) (Авторский колл).
12. Цагарели И. Некоторые гранично- контактные задачи теории упругости для шара. Сб. докл. респ. конф. молодых уч. и специалистов по акт. проблемам прикл. мат. и механики. Тбилиси. 1983, 177- 182.
13. Tsagareli I. On a problem for a spherical layer. Some problems of the elasticity theory. Proceeding of Y. N. Vekua Institute of Appl. Math. 1983. v. 12, pp. 118-122 (Russian).
14. Bacheleishvili M., Tsagareli I. The solution of some contact problems of statics for a ball. Some problems of the elasticity theory. Proceeding of Y. N. Vekua Institute of Appl. Math. 1983. v. 12. pp. 24-29 (Russian).
15. Цагарели И. Решение гранично-контактной задачи для составного шара с применением ЭВМ. X республ. научно-методическая конф. математиков высш. уч. завед. ГССР, Телави, 9-12 ноября, 1983г.
16. . Цагарели И . Эффективное решение некоторых граничных , гранично-контактных и смешанных задач классической теории упругости и термоупругости. Автореферат дисс. на соиск. уч. степ. канд. ф.-м. н. Тбилиси. 1984.
17. Цагарели И. Решение третьей и четвертой основных граничных задач динамики для изотропного круга. Докл. расш. засед. сем. ИПМ ТГУ. 1986, т.2, №2, 119-122.

18. Tsagareli I. The general contact problem of elastostatics for the piece-wise homogeneous space. Some problems of elastic theory. Proceedings of Y. N. Vekua Institute of Appl. Math. 1988, v. 23, pp. 149-156 (Russian).
19. Цагарели И. Решение динамических задач для термоупругого круга . Докл. расш. засед. сем. ИПМ ТГУ. 1989, т.4, №2, 179- 182.
20. Tsagareli I. Third and Fourth Dynamic problems of Thermoelasticity for a circle. Some problems of elastic theory. Proceedings of Y. N. Vekua Institute of Appl. Math. 1990. v. 39, pp. 262-271 (Russian).
21. Цагарели И. Решение основных задач динамики для термоупругого изотропного кольца. Тезисы докл. респ. конф. ин-та прикл. мат. и мех. АН УССР, Донецк. 1990, 62- 63.
22. Цагарели И. Решение гранично-контактных динамических задач для составного термоупругого круга. Матер. докл. регион. конф. «Динамические задачи механики сплошной среды, теор. и прикл. вопросы вибрационного просвечивания земли». Краснодар. 1990, ч.1, 167- 168.
23. Цагарели И. Решение некоторых динамических задач магнитоупругости для круга. Докл. расш. засед. сем. ИПМ ТГУ. 1991, т.6, №2, 161- 164.
24. Tsagareli I. On the Solution of some contact problems of Thermoelasticity dynamic for a circle and a ring. Some problems of the theory elasticity . Proceedings of I. Vekua Institute of Appl. Math. 1992, v. 46, pp. 240-253 (Russian).
25. Toradze D., Tsagareli I. Dynamic problems of thermomagnetic elasticity for the circle with a real electric conductivity. Reports of Enlarged Sess. of the 1993, v. 8, 2, pp. 91-94.
26. Tsagareli I. The solution of problems of general dynamics elastic thermal diffusion for a circle. Rep. of Enlarged Sess. Of the Sem. of Appl. Math. 1993, v. 8, 2, pp. 95- 98.
27. Tsagareli I. Boundary contact problems of elastothermodiffusion dynamics for multilayer infinite cylinder. Reports of Enlarged Sess. Of the sem. of Appl. Math. 1995, v. 10, 2, pp. 43-45.
28. Tsagareli I. The solution of the initial boundary problem of statics of the theory of elastic mixtures for a circle. International Symposium: Differential Equations and Math. Physics. 21-25 June. Tbilisi. Abstracts. 1997, p. 168.
- 29\*. Tsagareli I. , Toradze D. Boundary- value problems on the dynamics of the theory of elastic mixtures for a disk. International Applied Mechanics, vol. 34, no.12, 1998, pp. 1257-1264 .
30. Tsagareli I. The boundary value problems of the theory of elastic mixture for half-plane and endless strip. Reports of Enlarged sess. of the sem. of I. Vekua Inst. of Appl. Math. Vol. 14, N2, 1999. 54-57.

31. Tsagareli I. Solutions of some boundary and contact problems of thermomagnetoelasticity theory for a circle. Proceedings of I.Vekua Inst. of Appl. Math. Vol. 49, 1999, 92-102.
32. Tsagareli I. The solution of the Boundary- contact problems of statics of the theory of elastic mixtures for compound circle. Reports of Enlarged sess. of sem. of Appl. Math. Vol. 18, 2003. 81-84.
33. Giorgashvili L., Toradze D., Tsagareli I. Solution of the first boundary value problems of statics of the theory of thermoelastic mixture for a disc. Reports of Enlarged sess. of sem. of Appl. Math. vol. 20, no.2, 2005. 32-36 .
34. Tsagareli I. Solution to the boundary value problems of statics of thermoelasticity theory of binary mixture for circle and circle external domain. Tbilisi, AMIM. Vol.12,no.1, 2007. 109-115.
35. Tsagareli I . Solution to the boundary value problems of statics of thermoelasticity theory of binary mixture for circular domains. ISAAC conference Complex analysis, Partial differential equations and Mechanics of continua, 23-27 April, 2007, Tbilisi.
36. Toradze D., Tsagareli I. Solution to the third basic boundary value problem of the statics of thermoelastic mixture for circle and infinite area with circular hole. International conference “Non-classic problems of mechanics” Materials, 25-27 October, 2007. Kutaisi, 2007, 1, pp.284-289.
37. Tsagareli I . Boundary-value problems on Dynamics of the theory of thermoelastic binary mixture for a circle. International conference “Non-classic problems of mechanics” Materials, 25-27 October, 2007. Kutaisi, 2007, 1, pp.289-294.
38. Toradze D., Tsagareli I. The Principal Contact Problem for the Elastic Mixture. Sem. of I.Vekua Inst. of Appl. Mathem. Reports, vol. 34, 2008, 43-45.
39. Tsagareli I . Solution of a boundary value problem of static of the thermoelastic mixture for a circular ring. International Scientific and Technical Conference “Architecture and Construction – Topical problems” 15-18 October, 2008, Yerevan-Jermuk, Conference proceedings. 2008, 3, pp.261-265.
40. Toradze D., Tsagareli I. Effective solution of the static boundary value problems of the thermoelasticity theory of mixture for the plane with a circular opening. International Scientific and Technical Conference “Architecture and Construction – Topical problems” 15-18 October, 2008, Yerevan-Jermuk, Conference proceedings. 2008, 3, pp.255-260.
41. Tsagareli I . The Solution of the Boundary-contact Value Problems of thermoelasticity binary Mixtures for the circle and for circular Ring. International Conference on “Modern Problems in Applied Mathematics”, 7-9 October, 2008, Tbilisi. Book of Abstracts, p.66.

42. Tsagareli I. Contact problem for the Thermoelastic mixture. International conference “Analytic methods of Mechanics and Complex analysis”. Ukraine, Kiev, 29 June – 5 July, 2009. Book of Abstracts. pp. 58.
43. Tsagareli I. The contact problem of statics for a thermoelastic mixture. Tbilisi, AMIM. Vol. 14, 2009, pp. 62-70.
44. Tsagareli I., Toradze D. Boundary-contact problems of thermoelastic mixture of statics for multilayer ring and for circle. Tbilisi, AMIM. Vol. 14, 2009, pp. 71-78.
45. Tsagareli I., Svanadze M.M. Explicit Solution of the Boundary Value Problems of the Theory of Elasticity for Solids with Double porosity. International Conference GAMM 2010, 22-26 March, 2010, Karlsruhe, Germany. CD of Abstracts.
46. Tsagareli I., Svanadze M.M. The solution of the boundary value problems of poroelastostatic for double porous for a circular ring. International Scientific and Technical Conference “Architecture and Construction –Contemporary problems”, 30 September-3 October, 2010, Yerevan-Jermuk, Conference proceedings. , vol.2 , pp .219-225. 2010 .
- 47\*. Tsagareli I., Svanadze M.M. Explicit solution of the boundary value problems of the theory of elasticity for solids with double porosity. PAMM -Proc. Appl. Math. Mech. -2010, 10, pp.337-338 .
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