

CURRICULUM VITAE



Name: **Seremet Victor**

Born: **v. Navirneti, town Falesti, Moldova; January, 03, 1945**

Home address: **MD 2049, Chisinau, Mircesti, 8/1, ap. 150, Moldova**

Fix phone: **(37322) 432983 (home), (37322) 432243 (office)**

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Married – **have two children**

Personal website: **<http://greenfunction.md/>**

Current status:

PhD, Dr. Habilitat in Physico-mathematical Sciences;

Professor of Solid Mechanics and Director of Laboratory of Green's Functions

at Agrarian State University of Moldova;

Scientific Researcher Coordinator of Academy of Science of Moldova, Institute of Mathematics and Computer Science, Laboratory of Mathematical Modeling

Major scientific interests:

• **Mechanics of Solids:**

- Elasticity (elastostatic and elastodynamics);
- Thermoelasticity (stationary and non stationary; uncoupled and coupled thermoelasticity);
- Electroelasticity (stationary and non stationary);
- Magnetoelasticity (stationary and non stationary)
- Poroelasticity (poroelastostatic and poroelastodynamics; uncoupled and coupled poroelasticity)

• **Mathematics:**

- Integral Equations Methods
- Differential Equations Methods
- Applications of Mathematical Methods (especially Green's Functions Method), in Engineering

• **Mathematical Physics**

- Heat conduction (stationary and non stationary)
- Electrostatics and Electrodynamics,
- Acoustics

• **Fluid Mechanics**

Current research interests:

- Elaboration of the new formalism (Influence Element Method) to construct the Green's functions and Green's matrices for mathematical physics differential equations (especially for equations of elliptic type: elasticity, thermoelasticity, oroelasticity etc.);

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- Constructing the Green's functions and Green's matrices and respective Poisson's type integral formulas (especially in closed form) for two and 3D boundary-value problems for canonical orthogonal domains (Cartesian, polar, cylindrical, spherical etc., and composite structures from them) for elliptic, parabolic and hyperbolic differential equations;
- Applications of the Green's functions and Green's tensors in different branches of applied mathematical physics and Solid Mechanics, including Micromechanics of defects in solids, Fracture mechanics, Thermoelasticity Poroelasticity and Contact problems;
- Applications of the Green's functions and Green's matrices to solve non homogeneous boundary value problems, arising from different branches of modern science, industry and technologies;

Degrees:

- **1970, Diploma of Master** in "Civil Engineering", specialty "Solid Mechanics", Moscow Civil Engineering Institute (MISI) (now Moscow State Civil Engineering University), Moscow, USSR;
- **1974, Diploma of Ph.D** (Candidate in Technical Science in Strength of Materials and Mechanics of Constructions), Moscow Institute of Civil Engineering, The Problem Research Laboratory on Photo Elasticity, USSR. The title of the dissertation: "Modeling of creeping of concrete by the method of elastic analogy";
- **1986, Certificate of Doctor in Technical Science** (Solid Mechanics), Moscow Civil Engineering Institute, USSR. The title of dissertation: "The Solving of 3D Boundary Value Problems of Elasticity by the Harmonic Integral Equations Method";
- **1995, Diploma of Doctor Habilitat in Physico - Mathematical Sciences**, specialty "Solid Mechanics", Technical University of Moldova, Republic of Moldova. The title of dissertation: "Integral equations and Green's matrices for boundary value problems of the influence elements method in mechanics of deformable bodies ".

University education:

- **1970-1973**, PhD student of Moscow Civil Engineering Institute (now: Moscow State Civil Engineering University), Moscow, Russia, USSR
- **1967-1970**, Student of Moscow Civil Engineering Institute, Moscow, Russia, USSR (was transferred from Chisinau Polytechnic Institute of Moldova as excellent undergraduate student)
- **1965-1967**, Student of Chisinau Polytechnic Institute (now: Technical University of Moldova), Chisinau, Moldova, USSR

Permanent positions:

- **October 2011 to present**- Professor of Solid Mechanics at Agrarian State University of Moldova
- **April 1998 to present** – Professor of Engineering Sciences at Agrarian State University of Moldova
- **1995 -1998**, Associate Professor of the Technical University of Moldova
- **May 1995**, Defended the Doctor Habilitat in Physical and Mathematical Sciences thesis (Solid Mechanics), in Technical University of Moldova, Republic of Moldova. The title of the dissertation: "Integral Equations and Green's Matrices of Influence Elements Method in Solid Mechanics"
- **September 1986** Defended the Doctor in Technical Science dissertation (Solid Mechanics), Moscow Civil Engineering Institute, USSR. The title of dissertation: "The Solving of 3D Boundary Value Problems of Elasticity by the Harmonic Integral Equations Method";
- **1981-1982**, Senior Scientific Researcher, Moscow, Russia, USSR
- **1975-1995**, Associate Professor at Agrarian State University of Moldova, Chisinau, Moldova, USSR
- **1974-1975**, Superior Lecture of the Polytechnic Institute of Moldova, Chisinau, Moldova, USSR

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- **May 1974**, Defended the Ph.D (Candidate in Technical Science in Strength of Materials and Structural Mechanics) dissertation, Moscow Institute of Civil Engineering, The Problem Research Laboratory on Photo Elasticity, USSR. The title of dissertation: "Modeling of creeping of concrete by the method of elastic analogy".

Temporary positions:

- **Since January 2012** – Coordinator Scientific Researcher of Academy of Science of Moldova, Institute of Mathematics and Computer Science, Laboratory of Mathematical Modeling
- **2006-2008**, Principal Scientific Researcher of Academy of Transports Communications and Informatics of Republic of Moldova
- **2005–2006**, Professor and Head of the Department of Engineering Sciences, Academy of Transports Communications and Informatics of Republic of Moldova
- **Since 2005** - Director of the Laboratory of Green's Functions and Matrices at Agrarian State University of Moldova
- **2002–2003**, Professor of Mathematical Sciences, Academy of Transports Communications and Informatics of Republic of Moldova
- **2001-2002**, Professor of Mathematical Sciences at Human University of Moldova

Temporary visiting positions:

- **June 2010**, four weeks, L'UNIVERSITÉ DE PARIS-EST, Marne-la-Vallée, FRANCE, (invited professor to work in the project Constructing Green 's Matrices in Elasticity)
- **October 2008**, four weeks, WIAS, (WEIERSTRASS INSTITUTE for Applied Analysis and Stochastics) BERLIN, GERMANY, invited researcher to work in the project Constructing Green 's Functions and Poisson's integral Formulas in Elasticity) ;
- **September 2007**, four weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to continue the research on the project "Applications of Green's functions in mechanics" and to prepare a new more long duration stay to work on the theme: "Integral equations formulations"),
- **July 2005**, four weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to work on the scientific project "Applications of Green's functions in Mechanics");
- **September 2004**, two weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to start a collaboration in the field of Applications of the Green's Functions in Mechanics);
- **September 2002**, two weeks, "GHEORGE ASACHI" TECHNICAL UNIVERSITY OF IASI, ROMANIA (to teach students a special course of Thermo elasticity during two weeks) (as invited professor).

PUBLICATIONS: includes more than 120 items, among them **9 books**.

Selected Books:

- Seremet V and Bonnet G., Encyclopedia of Domain Green's Functions (thermo-magneto-electrostatics of solids), Publ, Agrar. State Univ. of Moldova, Chisinau, 220 pages, 2008 (in English)
- Şeremet V.D. *Handbook of Green's Functions and Matrices* - WIT press, Southampton and Boston, UK&USA, 2003, Book 304 p. + CD ROM, 232 p. (in English)
- Şeremet Victor, *Influence Elements Method*, State Agrarian University of Moldova:Publisher Center of UASM, Chişinău, **Moldova**, 2003, 260 pag. (in Romanian)

- Şeremet Victor, Influence *Functions in Stationary Thermoelasticity*, State Agrarian University of Moldova: Publisher Center of UASM, Chişinău, **Moldova**, 2003, 308 pag. (in Romanian)
- Şeremet V.D. *Green's functions and Green's matrices. Elasto-, thermo-, electrostatics of solid bodies*. Chişinău, Ştiinţa, Academy of Science of **Moldova**, 1994, - 220 p. (in Romanian).
- Sheremet, V.D. *Constructing Green's Matrices and Their Application to the Theory of Elasticity*, Chishinau, Monograph dep. In Mold. NIINTI N1346-M94, 1994, 286p (in Russian).

Selected Articles of International Circulation, most of them are cited by ISI:

- Seremet Victor, Static equilibrium of thermoelastic half-plane: Green's functions and solutions in integrals, *International Applied Mechanics*, 2013 (accepted)
- Seremet Victor, New closed-form Green function and integral formula for a thermoelastic quadrant, *Applied Mathematical Modelling*, 36, 2012, pp. 799-812, DOI: 10.1016/j.apm.2011.07.004
- Seremet Victor, Thermoelastostatic equilibrium of a spatial quadrant: Green's function and solution in integrals, *Arch Appl Mech*, DOI 10.1007/s00419-012-0625-5, 2012, 23 pages
- Seremet Victor, Exact elementary Green's functions and integral formulas in thermoelasticity for a half-wedge, *ASCE, Engineering Mechanics*, 2012, 30 pages, (accepted)
- Şeremet Victor and Guy Bonnet, New closed-form thermoelastostatic Green function and Poisson-type integral formula for a quarter-plane, *Mathematical and Computer Modeling*, Volume 53, Issue 1-2, January 2011, Pages 347-358
- Şeremet Victor, A new technique to derive the Green's type integral formula in thermoelasticity, *Engineering Mathematics*, Vol. 69. Number 4, 2011, pages 313-326, DOI: 10.1007/s10665-010-9385-9
- Şeremet Victor, Deriving exact Green's functions and integral formulas for a thermoelastic wedge, *Engineering Analysis with Boundary Elements*, Vol. 35, Issue 3, 2011, pages 327-332 DOI:10.1016/j.enganabound.2010.08.016
- Seremet Victor, New closed-form Green function and integral formula for a thermoelastic quadrant, *Applied Mathematical Modelling*, DOI: 10.1016/j.apm.2011.07.004, 20 pages,
 - (accepted)
- Victor Seremet, A method to derive new Greens tensors for polar domains, *Mechanics Research Communications*, Volume 37, Issue 1, January 2010, Pages 7-12 .
- Şeremet Victor, New explicit Green's function and Poisson's integral formula for a thermoelastic quarter-space, *Journal of Thermal Stresses*, Volume 33 Issue 4, 2010 Pages 356 – 386
- Seremet Victor, Exact elementary Green functions and Poisson-type integral formulas for a thermoelastic half-wedge with applications, *Journal of Thermal Stresses*, Vol. 33, Issue 12, 2010, pages 1156-1187, DOI: 10.1080/01495739.2010.510746
- Sheremet Victor, Bonnet Guy and Tatiana Speianu, New Poisson's type integral formula for thermoelastic half-Space, *Mathematical Problems in Engineering*, Volume 2009, Article ID284380, 18 pages doi:10.1155/2009/284380.
- Sheremet Victor, Bonnet Guy and Tatiana Speianu, New integral representations in the dynamic uncoupled thermoelasticity, *Journal of Thermal Stresses*, 32:1043-1064, 2009, DOI:10.1080/01495730903103119.
- Sheremet V., Sheremet A., Generalization of Green's Formulae in Thermoelasticity. An electronic publication at *National Institute of Standards and Technology (NIST) of USA*, 2003, 4 p. (see website: <http://www.ctcms.nist.gov/php/gf/browse.php>)
- Sheremet V.D. – New Formulae for Dynamical Thermal Stresses. *Journal of Thermal Stresses*, 25, (2), 2002, **USA**, 30 p.
- Melnikov Yu.A. and Seremet V.D. Some new Green's functions for a circular Poisson-Kirchhoff plate, (IASCOMÉ), 2001

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- Melnikov Yu.A. and Sheremet V.D. – Some new results on the bending of circular plate subject to a transverse point force *Mathematics and Mechanics of Solids*, Vol.6, № 1, 2001, USA, p. 29-47.
- Sheremet, V.D. Integral equations and Green's matrices for boundary value problems in the method of influence elements in mechanics of deformable bodies. *Doctor Habilitat Thesis in Physical and Mathematical Science*. Chishinau Technical University, Moldova, 1995 (in Russian).
- Sheremet, V.D. Functional equations and general integral representations for solutions of boundary problems in the theory of elasticity, *Dep. VINIII*, N904-B89, 1989- 47p. (in Russian).
- Seremet, V.D. *Fundamental solutions of some problems in the theory of elasticity*, *Izv. Vuzov, Matematika*, 1988, N II, p.85-88, Kazani, USSR (in Russian)
- Seremet V.D. *To the solution of the spatial Problem in the Theory of Elasticity by the method of Harmonic Integral Equations.*:The Second USSR Conference on the Theory of Elasticity, 1984, p.296,Tbilisi, GEORGIA.
- Seremet, V.D. *Constructing the function of a source for a mixed problem for the elastic octant*. In the book *Quality methods in the theory of differential equations – Mathematical Researches of Academy of Science of Moldova - Kishinau.*, 1984, nr.77, p.162-167, Moldova (in Russian).
- Seremet V.D. *Constructing Green's tensor in the theory of elasticity*. Reports of Scientific and Research Seminar of Moscow University, Department of Theory of Elasticity at Moscow State University by M.V.Lomonosov. *Vestnik MGU, Serial, Matematika, Mehanika*, 1984, N2, p.94, Moscow, USSR. (in Russian).
- Seremet V.D. *Constructing and application of Green's tensors in mechanics of rigid deformed body*. *Structural Mechanics and constructional analysis*, 1983 N3, p.81, Moscow, USSR.
- Seremet V.D. *Equilibrium of the elastic octant loaded with the concentrated force*. *Dep. at the Izv. of the Academy of Sciences of the Armenian SSR. Mechanics*, 1983, p.2-12, Erevan, Armenia, USSR.

Selected International Conferences:

- Victor Seremet, Guy Bonnet and Tatiana Speianu: Influence functions and integral formulae for spherical thermoelastic bodies. *Proc. of The XXII International Congress of Theoretical and Applied Mechanics, ICTAM2008*, Adelaide University, Australia, 24-30 August, 2008, 2 p.
- Victor Seremet, Guy Bonnet and Tatiana Speianu: New results in construction of the Green's matrices in spherical coordinates. *Proc. of The Inaug. Internat. Conf. of the Engineering Mechanics Institute-EM08*, University of Minnesota, USA, May 18-21, 2008, 7 p.
- Sheremet Victor, Bonnet Guy & Tatiana Speianu, *The $\otimes G$ -convolution method for Green's integral formulas derivation*, *ESMC2009*, 2009, 2 p.
- Seremet V. D., Bonnet Guy & Korneev V. M., *A method to derive Green's functions and Poisson's integral formulas in thermoelasticity*, International Conference: „Modern problems of Applied Mathematics, Informatics and Mechanics”, Voronej State University, Russa 2009, 5 pages, (in Russian)
- Seremet V., Seremet A., *Integral Solutions in Spherical Co-ordinates for Elastic Bodies*, Proceedings of The 17 th Engineering Mechanics Conference of the American Society of Civil Engineers, June 13-16, 2004 at University of Delaware Newark, DE, USA (to appear, see web site: <http://chinacat.coastal.udel.edu/EM2004/>)
- Seremet, V. D., Ioana Vlad, A. Seremet, *New Influence Functions for Thermoelastic Spherical Shells*, Proceedings of the V-th International Congress on Thermal Stresses (ICTS 2003), Virginia Tech., Blacksburg, June 8-11, 2003, USA, 4p. (see web site: <http://www.esm.vt.edu/ts2003/>)
- Şeremet, V. D., Vlad I.&Şeremet A., *New Integral Formulae in Thermoelasticity*, Proceedings of the 16th ASCE Engineering Mechanics Conference (EM 2003) , Seattle, Washington University, July 16-18, 2003, USA, 9 p. (see website: <http://www.ce.washington.edu/em03>)

- Şeremet V.D. – Some New Results in Constructing of 3D Green’s Matrices. *Proceedings of the 15th ASCE Engineering Mechanics Conference (EM 2002)*, Columbia University in the City of New York, June 2-5, 2002, USA, 8 p. (see web site: <http://www.civil.columbia.edu/em2002/>)
- Seremet, V. D. – Some New Influence Functions and Integral Solutions in Theory of Thermal Stresses *Proceedings of the IV-th International Congress on Thermal Stresses*, June 8-11, 2001, p.423-427, Osaka, Japan (see web site: <http://www.ts2001.gr.jp/cnfprg/HTML/s2c/index.html>)

Selected seminars:

- At the Numerical Methods Laboratory of Institute of Mathematics of the Academy of Science of Moldova (Chisinau, 1981, 1985, 1995);
- at the scientific seminar “ Mechanics of Solid Deformed Body” (Moscow Civil Engineering Institute, 1982, 1986);
- at the scientific seminar of the Department of Theory of Elasticity (M.V. Lomonosov Moscow State University, Moscow, 1983);
- at the scientific seminar of the Institute of Mechanics (Ukrainian Academy of Sciences, Kiev, 1983, 1995);
- at the scientific seminar “The Numerical Methods in the Mechanics of Continua” (Leningrad State University; Leningrad; 1984);
- at the scientific seminar “Mechanics and Control of Processes” (Leningrad Polytechnic Institute, Leningrad, 1984);
- at the scientific seminar of the Mechanics and Mathematics Department (Odessa State University, Ukraine, 1986);
- at the seminar of Institute of Problems in Mechanics of the Academy of Sciences of URSS (Moscow, 1986);
- at the scientific seminar of the Mechanics and Mathematics Department (Dniepropetrovsk State University, Ukraine, 1988);
- at the Second International Conference on the Finite and Boundary Elements (Sibiu, Romania, 1993);
- at the XVIII Congress of Romanian-American Academy of Sciences and Arts (Chishinau, Moldova, 1993),
- at the First Conference on Applied and Industrial Mathematics (Oradia, Romania, 1993),
- at the Fourth International Conference on the Finite and Boundary Elements (Iasi, Romania, 1997),
- at seminar of Laboratory of Mechanics, Marne la Vallee University, July 11, 2005, FRANCE

Honours, Awards, Fellowships:

- **2012, Who’s Who in the World**
- **2010, Laureate of the Prize and Diploma of Academy of Science of Moldova**, (section of physics and mathematical science)
- **2004, Nomination of the State Prize in Science of Republic of Moldova**
- **2004, Fellow of Wessex Institute of Technology of Great Britain**
- **2004, Laureate of the Prize and Diploma of Academy of Science of Moldova**, (section of physics and mathematical science)
- **2003, Laureate of Prize and Diploma “The Best Professor”** (State Agrarian University of Moldova)
- **2002, Laureate of Prize and Diploma of Merit of Superior Council for Science and Technology Development of Moldova**
- **2003, Travel Grant Award** of Organization Committee of ICTS 2003 (USA) to attend the V-th International Congress on Thermal Stresses (ICTS 2003), Virginia Tech., Blacksburg, June 8-11, USA

- **2002, Travel Grant Award** of CRDF, TGP (USA) to attend the 15th ASCE Engineering Mechanics Conference (EM 2002), Columbia University in the City of New York, June 2-5, , USA
- **2001, Travel Grants Award** of SOROS FOUNDATION and GOVERNAMENT OF MOLDOVA to attend The IVth International Congress on Thermal Stresses, June 8-11, Osaka, JAPAN, 2001.

Permission to supervise Doctor and Doctor Habilitat dissertations in Solids Mechanics

(Decision nr 603 of Superior Attestation Commission of Republic of Moldova from **14.04.06**)

I supervised two dissertations:

- Marian Grigore-Doctor Habilitat in Technical Sciences; The theme of dissertation: “Contributii teoretico-experimentale la studiul fiabilitatii pieselor si imbunatatirilor utilajului agricol reconditionate cu comozite pe baza de polimeri” - Scientific Consultant;
- Tatiana Speianu - Doctor in Mathematical Sciences; The theme of dissertation: “The Construction of the Green’s Matrices by using Incompressible Influence Method” - Scientific Supervisor

Since 2012, I supervise two doctoral dissertations:

PhD students:

- Cretu Ion- The theme of the dissertation: “Integral Formulae in Uncoupled Thermoelasticity”
- Kolesnic Veaceslav- The theme of the dissertation: “Constructing and Applications of Green’s Matrices in Micromechanics of Defects”

Reviewer:

- Journal Engineering Analysis with Boundary Elements; Journal Mechanics of Solids (British Royal Society);
- Journal Mechanics of Advances Materials and Structures;
- Transilvian Journal of Mechanics and Mathematics and other journals.

Other activities:

- Member of ASCE, USA;
- Member of EUROMECH;
- Member of Editorial Broad of Transilvian Journal of Mechanics and Mathematics;
- Member of the Society of Engineers assisted by Computers of Romania;
- Member of Scientific Council for defending Ph.D and Dr. Habilitat dissertations on specialization “Solid Mechanics”;
- Member of Faculty Scientific Committee of the State Agrarian University of Moldova

Teaching interest:

Mathematics:

- Methods to derive the domain Green's functions and matrices for ordinary and partially 2&3D differential equations and systems, including differential equations of mathematical physics, especially static and dynamical elasticity and thermo elasticity (differential equations of elliptic types)
- Applied mathematics
- Differential and integral calculus
- Elementary and high mathematics
- Mathematical physics differential equations
- Differential and integral equations

Mechanics:

- Teoretical mechanics
- Strength of materials
- Structural mechanics
- Structural engineering
- Solid mechanics
- Mechanics of soils
- Solution of 3D boundary value problems of theory of elasticity, thermo elasticity, viscous elasticity and thermo viscous elasticity
- Creep of concrete, polymers and metals
- Concrete, metal and wood elements of constructions

Elaboration of new courses and of teaching and methodical activities:

- Elaboration and teaching of a new course on Green's functions constructing for ordinary differential equations and their application for linear elastic beams
- Elaboration and teaching of a new course on Green's functions and matrices constructing for 2D differential equations and their application for linear elastic plates and shells
- Elaboration and teaching of a new course on Green's functions and matrices constructing for 3D Lamé's differential equations and their application for linear elastic massive structures
- Elaboration and teaching of a new course on Green's functions constructing for 2D and 3D differential equations in uncoupled and coupled thermo elasticity
- Elaboration and teaching of a new course on Influence Element Method and its application in Solids Mechanics and Micromechanics

These planned courses will contain a lot of examples of how to derive the Green's functions and matrices for different canonical domains of Cartesian and polar systems of coordinates. They will be recommended to undergraduate, graduate, doctoral and postdoctoral students.

Recent elaborated of the curricula for following subjects:

- Theoretical Mechanics
- Strength of Materials
- Structural Mechanics
- Engineering Constructions
- Geotechnics and Foundations
- Materials of Construction

List of Publications:

Books

1. Victor Seremet & Guy Bonnet, [Encyclopedia of Domain Green's Functions](#) (Thermo-magneto-electrostatics of solids in rectangular and polar coordinates), State Agrarian University of Moldova: Publisher Center of UASM, Chisinau, Moldova, 2008, 220 pag., (in English).
2. Victor Seremet *Geotechnics & Foundations*, [Agrarian State University of Moldova](#): Publisher Center of UASM, Chisinau, Moldova, 2008, 211 pag. (in Romanian)
3. Victor Seremet, *Green's Functions for Poisson's Equation*, [Agrarian State University of Moldova](#): Publisher Center of UASM, Chisinau, Moldova, 2006, 242 pag. (in Romanian)
4. Victor Seremet., *Engineering Constructions.*, [Agrarian State University of Moldova](#): Publisher Center of UASM, Chisinau, Moldova, 2006, 242 pag. (in Romanian)
5. Seremet V.D. *Handbook of Green's Functions and Matrices* - WIT press, Southampton and Boston, UK&USA, 2003, Book 304 p. + CD ROM, 232 p. (in English) (see web site <http://www.witpress.com/acatalog/933X.html>).
6. Seremet Victor, *Influence Elements Method*, [Agrarian State University of Moldova](#): Publisher Center of UASM, Chisinau, Moldova, 2003, 260 pag.
7. Seremet Victor, *Influence Functions in Stationary Thermoelasticity*, [Agrarian State University of Moldova](#): Publisher Center of UASM, Chisinau, Moldova, 2003, 308 pag.
8. Seremet V.D. *Green's functions and Green's matrices. Elasto-, thermo-, electrostatics of solid bodies.* Chisinau, Stiinta, [Academy of Science of Moldova](#), 1994, - 220 p.
9. Seremet, V.D. *Constructing Green's Matrices and Their Application to the Theory of Elasticity*, Chisinau, Monograph dep. In Mold. NIINTI N1346-M94, 1994, 286p.

Articles and Conferences

10. Seremet Victor, New closed-form Green function and integral formula for a thermoelastic quadrant, *Applied Mathematical Modelling*, 36, 2012, pp. 799-812, DOI: 10.1016/j.apm.2011.07.004
11. Seremet Victor, Thermoelastostatic equilibrium of a spatial quadrant: Green's function and solution in integrals, *Arch Appl Mech*, DOI 10.1007/s00419-012-0625-5, 2012, 23 pages
12. Seremet Victor, Exact elementary Green's functions and integral formulas in thermoelasticity for a half-wedge, *ASCE, Engineering Mechanics*, 2012, 30 pages
13. Seremet Victor and Guy Bonnet, New closed-form thermoelastostatic Green function and Poisson-type integral formula for a quarter-plane, *Mathematical and Computer Modeling*, Volume 53, Issue 1-2, January 2011, Pages 347-358
14. Seremet Victor, A new technique to derive the Green's type integral formula in thermoelasticity, *Engineering Mathematics*, Vol. 69. Number 4, 2011, pages 313-326, DOI: 10.1007/s10665-010-9385-9
15. Seremet Victor, Deriving exact Green's functions and integral formulas for a thermoelastic wedge, *Engineering Analysis with Boundary Elements*, Vol. 35, Issue 3, 2011, pages 327-332 DOI:10.1016/j.enganabound.2010.08.016
16. Seremet Victor, New closed-form Green function and integral formula for a thermoelastic quadrant, *Applied Mathematical Modeling*, DOI: 10.1016/j.apm.2011.07.004, 20 pages, (accepted)
17. Victor Seremet, New Poisson's integral formulas for thermoelastic half-space and other canonical domains, *Engineering Analysis with Boundary Elements*, 34, 2 (2010), 158-162.
18. Victor Seremet, A method to derive new Greens tensors for polar domains, *Mechanics Research Communications*, Volume 37, Issue 1, January 2010, Pages 7-12 .
19. Seremet Victor, New explicit Green's function and Poisson's integral formula for a thermoelastic quarter-space, *Journal of Thermal Stresses*, Volume 33 Issue 4, 2010 Pages 356 – 386
20. Seremet Victor, Exact elementary Green functions and Poisson-type integral formulas for a thermoelastic half-wedge with applications, *Journal of Thermal Stresses*, Vol. 33, Issue 12, 2010, pages 1156-1187, DOI: 10.1080/01495739.2010.510746
21. Seremet Victor, Bonnet Guy and Tatiana Speianu, New Poisson's type integral formula for thermoelastic half-Space, *Mathematical Problems in Engineering*, Volume 2009, Article ID284380, 18 pages doi:10.1155/2009/284380.
22. Seremet Victor, Bonnet Guy and Tatiana Speianu, New integral representations in the dynamic uncoupled thermoelasticity, *Journal of Thermal Stresses*, 32:1043-1064, 2009, DOI:10.1080/01495730903103119.
23. Seremet Victor, Bonnet Guy and Tatiana Speianu, The TG-convolution method for Green's integral formulas derivation, *Proceedings of the 7th Euromech Solid Mechanics Conference*, Lisbon, Portugal, September 7-11, 2009.
24. Victor Seremet, Guy Bonnet and Tatiana Speianu , New results in construction of the green's matrices in spherical coordinates, *Proceedings of The Inaugural International Conference of the Engineering Mechanics Institute-EM08*, University of Minnesota, USA, May 18-21, 2008, 7 pages.
25. Victor Seremet, Guy Bonnet and Tatiana Speianu, Influence functions and integral formulae for spherical thermo elastic bodies, *The XXII International Congress of Theoretical and Applied Mechanics, ICTAM2008*, Adelaide University, Australia, 24-30 August, 2008, 2 pages
26. V.Seremet, Green's Function for bounded parallelepiped, *Proceedings of the Academy of Transports*,

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- Informatics and communication (ATIC), 2007 (in English), 20 pag., Moldova
27. V. Seremet, Green's Function for unbounded parallelepiped, Proceedings of the Academy of Transports, Informatics and communication (ATIC), 2006 (in English), 8 pag., Moldova
 28. V. Seremet, V. Racu, T. Speianu, The application of Green's functions to the study of the deformation of a membrane in a form of circular layer. UASM, 2005, 4 pages.
 29. V. Seremet, G. Marian, Aplicarea functiilor Green la calculul ajustajelor cu joc restabilite cu compozite polimerice, Lucrarile stiintifice ale UASM, 2005, 7 pag., Chisinau
 30. V. Seremet, G. Marian, Contributii privind aplicarea functiilor Green la calculul starii de deformatii si tensiuni a pieselor reconditionate cu straturi compensatoare de uzura, Lucrarile stiintifice ale UASM, 2005, 12 6 pag., Chisinau
 31. V. Seremet, G. Marian, Recomandari privind calculul ajustajelor cu stringere reconditionate cu straturi metalo-polimerice, Jurnalul Stiinta Agrara nr.1, 2005, 7 pag., Chisinau
 32. V. Seremet, G. Marian, Aplicarea functiilor Green la calculul ajustajelor cu stringere renovate cu composite polimerice, Jurnalul Stiinta Agrara nr.1, 2005, 6 pag., Chisinau
 33. V. Seremet, T. Speianu, V. Racu, The construction and application of Green's functions to the determination of the temperature field of a circular layer, 2004, 6 pages, UASM, Moldova
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