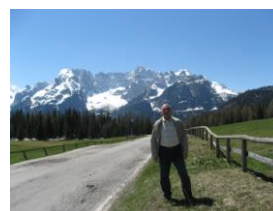


CURRICULUM VITAE

NAME	Alexander Skaliukh		
CONTACTS	Address	<i>Home</i>	Zorge str, 58, build. 4, Ap. 8, Rostov-on-Don, 344103, Russia
		<i>Main Work</i>	Associate Professor (Docent), I.I. Vorovich Institute of Mathematics, Mechanics and Computer Science, Southern Federal University, Miltchakova str. 8a, Rostov-on-Don, 344090, Russia
	Phone and Fax:	<i>Private</i>	007 (863) 297-5282 (working), +7 (928) 174-80-92 (mobile)
		<i>Fax</i>	007 (863) 297-5111
	E-mails:	skaliukh@math.sfedu.ru a.s.skaliukh@gmail.com	



PERSONAL INFORMATION

Place of birth: Taganrog, USSR	Date of birth: 13 November 1953	Citizenship: Russia
Marital status: married	Languages: English (intermediate), Russian.	

EDUCATION

1979-1982	Postgraduate student (Division of Elasticity of Rostov State University)
1971-1976	Student of Department of Mechanics and Mathematics of Rostov State University

ACADEMIC DEGREES

1996	Diploma of Associate Professor (Docent)
1986	Candidate of Science in Physics and Mathematics (= Ph.D.). Thesis: Mixed two-dimensional problem of electroelasticity for the semibounded bodies

PROFESSIONAL EXPERIENCE

At Southern Federal University (Rostov State University):

1998-2015	Associate Professor (Docent) of Division of Mathematical Modeling
1995-1998	Associate Professor (Docent) of Division of Theory of Elasticity
1984-1995	Assistant Professor, Senior Lecturer of Division of Theory of Elasticity
1983-1984	Scientific research engineer of the Rostov State University
1982-present	Research Worker

At Don State Technical University

2011 – 2014	Associate Professor (Docent) of Division of Theoretical and Applied Mechanics
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At Taganrog Radio Engineering Institute

1977-1983	Engineer scientific research part of the Taganrog Radio Engineering Institute
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At Taganrog plant press-forging equipment

1976-1977	Engineer of the plant press-forging equipment
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RESEARCH INTERESTS FOR LAST YEAR'S

Ferroelectrics and modeling of irreversible processes, Mathematical and Computing Modeling in Engineering Problems, Numerical Methods and Software for PDE (FEM, BEM etc.), Finite element programs (ANSYS, FlexPDE, ACELAN), Electroelasticity and piezoelectric analysis

HEAD OF THE GRANTS FOR LAST YEAR'S (2010-2015)

- RFBR, No. 13-08-01094-a, Mathematical modeling of the nonlinear behavior of ferroelectrics - relaxors in strong electric and mechanical fields, and computer analysis devices based on them, 2013-2015

- The Ministry of education and science of Russia, project №1334 the base part of state assignment, №2014/174, Development of methods mathematical and computer modeling for research of linked physical and mechanical problems with complicated properties, 2014-2015.
- Federal Agency of Education, Federal Target Program "Scientific and scientific-educational personnel of innovative Russia" on 2009-2013; State contract P 487, 05.08.2009, Investigation of the influence of electrical and mechanical fields on the formation of the internal structure of ferroelectric ceramics and composite materials, 2009-2011

PUBLICATIONS

More than 140 scientific publications.

LIST OF LAST SIGNIFICANT PUBLICATIONS (2010-2015)

Monographs

1. **A.V. Belokon, A.S. Skaliukh**, Mathematical modeling of irreversible processes of polarization. M.: FIZMATLIT, 2010, 328 p.(Russian edition).

Chapters in monographs

- 1 **Skaliukh A.S.**, Modeling of Polarisation of the Polycrystalline Ferroelectrics In: «Piezoceramic Materials and Devices». Edit. Ivan A. Parinov. Chapter 2. NovaSciencePublishers. 2011. p.55-104. ISBN: 978-1-61728-307-9.
- 2 A. N. Soloviev, P. A. Oganessian and **A. S. Skaliukh**, Modeling of Piezoelectric Elements with Inhomogeneous Polarization by Using ACELAN In «Advanced Materials - Studies and Applications», Nova Publisher, N.-Y., 2015. pp.169-192 ISBN: 978-1-63463-749-7.
- 3 **Alexander Skaliukh**, Guorong Li, The General Theory of Polarization of Ferroelectric Materials // Advanced Materials: Manufacturing, Physics, Mechanics and Applications. Springer Proceedings Phys. Vol. 175, 2015, chapter 28, pp. 393-411, ISBN 978-3-319-26322-9.

Papers

1. **A Skaliukh** and A Belokon, Modeling strain and dielectric hysteretic type dependences in polycrystalline ferroelectrics by methods of two-level continuum // IOP Publishing, Journal of Physics: Conference Series, № 602 (2015), 012025.
2. **Skaliukh A.S.** On a mathematical model for polycrystalline ferroelectrics - relaxors // AIP Conference Proceedings, № 1627, 2014. Pp. 1055-110.
3. A. V. Nasedkin, **A. S. Skaliukh**, and A. N. Soloviev New models of coupled active materials for finite element package ACELAN // AIP Conference Proceedings, № 1637, 2014. Pp. 714-723
4. **Skaliukh A.** About hysteretic operators arising in the modelling of the polarization of ferroelectric materials // Proceedings of the International Conference on Mathematical Sciences, July 17-19, 2014, Chennai, India, Sathyabama university, Published By Elsevier, 2014. Pp. 635-638.
5. Наседкин А.В., **Скалиух А.С.**, Соловьев А.Н. Модели активных материалов и устройств в программном комплексе ACELAN V14 // Труды XVII Международной конференции "Современные проблемы механики сплошной среды", 14-17 октября 2014 г., Ростов-на-Дону, 2014, т. 2. С. 141-145.
6. **A. Skaliukh**, A. Soloviev, A. Nasedkin, P. Oganessian Modeling vibrations of nonuniformly polarized piezoceramic bodies. 11th International Conference on Vibration Problems Z. Dimitrovová et al.(eds.) Lisbon, Portugal, 9-12 September 2013 , 9 pages.
7. Belokon A.V., Nadolin K.A., Nasedkin A.V., **Skaliuh A.S.**, A.N. Soloviev Symmetric algorithms in finite element analysis of complex piezoelectric devices // Mathematical modeling, 2001. V. 13, № 2. pp 51-60.
8. Vernigora G.D., Lupeyko T.G., **Skaliuh A.S.**, A.N. Soloviev About polarization and determining the effective characteristics of the porous piezoelectric ceramics // Herald of DSTU. 2011 V. 11, № 4 (55). Pp. 462-469.
9. **Skaliukh A.S.**, Soloviev A.N., Oganessian P.A. Modeling of piezoelectric elements with inhomogeneous polarization in ACELAN // Ferroelectrics 2015 483 (1), pp. 95-101.

SCIENTIFIC COLLABORATIONS

2005-present Dr. Naprasnikov Vladimir, Belarusian National Technical University. Belarus, 220013, Minsk, Nezavisimosty Ave., 65, e-mail: n_v_v@tut.by
 2009-present, Prof. Li Guorong, Shanghai Institute of Ceramics, Chinese Academy of Sciences, 1295 Dingxi Road, Shanghai, China 200050

EDUCATIONAL ACTIVITIES

Head of bachelor's direction on mechanics (2014-2015)

Courses:

“Classical mechanics, numerical methods”, “Concepts of modern natural knowledge”, “Mathematical models in physics and engineering”, “Modeling of systems and processes”, “Contemporary active materials”

7.11.2015