

IGOR V. ANDRIANOV

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SUMMARY

Professor with 25 years of experience in Mathematics, Applied Mechanics and Mechanics of Solids. Researcher with 50 years of experience in Applied Mathematics and Mechanics of Solids. Supervisor of 18 Ph.D. students. Research interests: Asymptotology, Nonlinear Dynamics, Composite Materials, Theory of Thin-Walled Structures.

EXPERIENCE

1998-2005, 2014-now	Independent Researcher
10.2006-8.2013	Research Scientist, RWTH Aachen University, Germany
09.1990-10.1997	Full Professor of Mathematics, Dnepropetrovsk Institute of Civil Engineering (DICE, Dnepropetrovsk, Ukraine)
09.1977-08.1990	Associate Professor of Mathematics, DICE
09.1974-08.1977	Senior Research Scientist, Dnepropetrovsk State University (DSU, Dnepropetrovsk, Ukraine)

ACADEMIC DEGREES

1991 Full Professor of Mathematics, State Committee for Public Education of the USSR
1990 D.Sc. (Doctor of Physical and Mathematical Sciences) in Mechanics of Solids, Moscow State Institute of Electronics and Mathematics (USSR)
1980 Associate Professor of Mathematics, State Committee for Public Education of the USSR
1975 Ph.D. in Structural Mechanics, Dnepropetrovsk State University (DSU)
1971 Master of Applied Mechanics, DSU

UNIVERSITY EDUCATION

1971-74	Doctoral student, DSU
1966-71	Applied Mechanics student, DSU

AWARDS

1996 Soros Professor

PUBLICATIONS AND PRESENTATIONS

18 books and more than 300 papers in peer-reviewed journals. Editor of 3 books. Presentations at more than 200 international congresses, conferences and seminars.

THE MAIN BOOKS

- Andrianov I.V., Awrejcewicz J., Starushenko G.A. Approximate Models of Mechanics of Composites: An Asymptotic Approach. CRC Press, Taylor & Francis, Boca Raton, 2023.
- Andrianov I.V., Awrejcewicz J., Danishevskyy V.V. Linear and Nonlinear Waves in Microstructured Solids: Homogenization and Asymptotic Approaches. CRC Press, Taylor & Francis, Boca Raton, 2021 (translated to Slovene in 2023).
- Andrianov I.V., Awrejcewicz J., Danishevskyy V.V. Asymptotical Mechanics of Composites. Modelling Composites without FEM. Springer Nature, 2018.
- Andrianov I.V., Awrejcewicz J., Danishevskyy V.V., Ivankov A.O. Asymptotic Methods in the Theory of Plates with Mixed Boundary Conditions. Wiley, 2014.
- Andrianov I., Awrejcewicz J. Methods of Asymptotic Analysis and Synthesis in Nonlinear Dynamics and Mechanics of Solids. Moscow-Izhevsk, Institute of Computer Researches, 2013 (in Russian)
- Andrianov I.V., Barantsev R.G., Manevitch L.I. Asymptotical Mathematics and Synergetic. Moscow: URSS, 2004 (in Russian).
- Andrianov I.V., Awrejcewicz J., Manevitch L.I. Asymptotical Mechanics of Thin-Walled Structures. A Handbook. Berlin: Springer-Verlag, 2004.
- Manevitch L.I., Andrianov I.V., Oshmyan V.O. Mechanics of Periodically Heterogeneous Structures. Berlin: Springer-Verlag, 2002.
- Andrianov I.V., Manevitch L.I. Asymptotology: Ideas, Methods, and Applications. Dordrecht et al.: Kluwer, 2002.
- Awrejcewicz J., Andrianov I.V., Manevitch L.I. Asymptotic Approaches in Nonlinear Dynamics: New Trends and Applications. Berlin: Springer-Verlag, 1998.
- Obraztsov I.F., Nerubaylo B.V., Andrianov I.V. Asymptotic Methods in Structural Mechanics of Thin-Walled Structures. Moscow: Mashinostroyenie, 1991 (in Russian).
- Andrianov I.V., Lesnichaya V.A., Manevitch L.I. Homogenization Methods in Statics and Dynamics of Ribbed Shells. Moscow: Nauka, 1985 (in Russian).

ABSTRACT WRITING

1997-2014	Zentralblatt für Mathematik
1984-1997	Mathematical Abstracts Journal. Moscow, VINITI

LONG-TIME SCIENTIFIC VISITS

2005 3 months, Delft University of Technology, the Netherlands
2004 3 months, Delft University of Technology, the Netherlands
2003 University La Laguna, Tenerife, Spain
2002 Université Claude Bernard Lyon I, France
2001 Institute of Fundamental Technological Research Warsaw, Poland
1999 Institute of Fundamental Technological Research, Warsaw, Poland
1999, 2016, 2017, 2018, 2019 Delft University of Technology, the Netherlands
1997 University of Illinois at Urbana-Champaign, Urbana, USA

CONFERENCE KEYNOTE TALKS

11th DSTA (Dynamical Systems: Theory and Applications), Lodz, Poland, 5-8.12 2011
XV MCM (Mechanics of Composite Materials), Riga, Latvia, 26-30.05 2008
XXXVI Advanced Problems in Mechanics Conf., Repino, Russia, 5.07-7.07 2008
2nd Int. Conf. on Nonlinear Normal Modes, 19-23.06 2006, Samos, Greece
9th DSTA, Lodz, 17-20.12 2007
8th SSTA (Shell Structures: Theory and Applications) Conference, Jurata, Poland, 12-14.10 2005

CONFERENCES MINISYMPOSIUM ORGANIZER

15th DSTA, Lodz, 2-5.12 2019
8th European Solid Mechanics Conference, Graz, Austria, 9-13.07 2012
Numerical Analysis and Applied Mathematics: Halkidiki, Greece, 19-25.09 2011;
Rhodes, Greece, 19-25.09 2010; Rethymno, Crete, Greece, 18-22.09 2009
ENOC (EUROMECH Nonlinear Dynamics Conference): 10th, Lion, France, 2020+2; 9th, Budapest, Hungary, July 2017; 8th, Vienna, Austria, 6-11.07 2014; 7th, Rome, Italy, 24-29.07 2011; 6th, Sankt-Petersburg, Russia, 30.06-4.07 2008; 5th, Eindhoven, the Netherlands, 7-12.08 2005
GAMM-ICIAM Conference, Zurich, Switzerland, 16-19.07 2007

INVITED SEMINARS AND PRESENTATIONS (45-60 minutes)

Great Britain: 2014 Keele University; Brunel University; Loughborough University
Germany: 2001, 2009, 2011, 2012 TU Berlin
1999, 2000, 2013, 2017 RWTH Aachen University
2001 Weierstraß-Institute, Berlin; CAESAR, Bonn
2000 Univ. Stuttgart; Univ. Karlsruhe; Univ. Paderborn

1999 Max-Plank Inst. Demogr. Forschung, Rostock; TU Hamburg-Harburg; TU Braunschweig; Bauhaus-Univ. Weimar; Univ. Jena; TU Darmstadt
1998 Univ. Erlangen-Nürnberg
Austria: 2001 Vienna TU
France: 2002 Univ. Claude Bernard Lyon I; Univ. de Franche-Comté-Besancon
2010 UPMC-d'Alembert, Univ. Pierre et Marie Curie (Paris 6)
2012 École Centrale de Nantes
The Netherlands: 2003, 2004, 2016, 2017, 2018, 2019 Delft TU

MEMBER OF EDITORIAL BOARD

Journal of Applied Mathematics
Methods of Solving Applied Problems in Solid Mechanics

RESEARCH GRANTS

1994 International Science Foundation grant
1997 NSF grant
2005 NWO grant
2006, 2008, 2010 DFG grants
2014 LMS grant

INDEXES

Scopus Author ID: 7004511057; Scopus h-index 24
Google Scholar h-index 31; i10-index 112
WoS Resercher ID: G-8772-2016; WoS h-index 20

PERSONAL DATA

Date of birth: 19 April 1948
Citizenship: Ukraine
Permanent residence: Germany
Marital status: married, 3 sons
Languages: Russian, native. Ukrainian, fluent. English, fluent. German, good