

IGOR V. ANDRIANOV

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SUMMARY

Professor with 25 years of experience in Mathematics, Applied Mechanics and Mechanics of Solids. Researcher with 46 years of experience in Applied Mathematics and Mechanics of Solids. Supervisor of 18 Ph.D. students. Research interests: Asymptotic Approaches, Nonlinear Dynamics, Composite Materials, Theory of Plates and Shells.

EXPERIENCE

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

1990 Full Professor of Mathematics, Dnepropetrovsk Institute of Civil Engineering (DICE, now Pridneprovskaya State Academy of Civil Engineering and Architecture, Dnipro, Ukraine)
1990 D.Sc. (Doctor of Physical and Mathematical Sciences) in Mechanics of Solids, Moscow State Institute of Electronics and Mathematics (Russia)
1980 Associate Professor of Mathematics, DICE
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
1994 International Science Foundation grant

PUBLICATIONS AND PRESENTATIONS

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

THE MAIN BOOKS

- 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.
- 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: Mashinostroyeniye, 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
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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 Conference, 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-Planck 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 Ecole 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

Recipient of research grants from Germany, the Netherlands, the Great Britain,
and USA

INDEXES

Scopus Author ID: 7004511057; Scopus h-index 22
[Google Scholar](#) h-index 30; i10-index 94

PERSONAL DATA

Date of birth: 19 April 1948
Citizenship: Ukraine
Permanent residence: Germany
Marital status: married, 3 sons (51, 44 and 37 years old)
Languages: Russian, native. Ukrainian, fluent. English, fluent. German, good