



Professor Wojciech Pietraszkiewicz

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Prof. Wojciech PIETRASZKIEWICZ, DSc

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Specialization: NONLINEAR THEORY OF SHELLS, NON-LINEAR ELASTICITY, KINEMATICS OF DEFORMABLE CONTINUUM, PHASE TRANSITIONS IN SOLIDS

Education: Gda_Dsk University of Technology, Department of Civil Engineering - MSc (1961), PhD (1966), Dr. hab. (1977); Institute of Fluid-Flow Machinery, PAsci - Professor (1983), Ordinary Professor (1990)

Employment: Gda_Dsk University of Technology, Department of Civil Engineering - Research Assistant (1961-1966); Institute of Fluid-Flow Machinery, PAN - Adjunct (1966-1972), Docent (1973-1982), Professor (1983-1989), Ordinary Professor (1990-); University of Illinois, Urbana (USA) - Visiting Professor (1971-1972); Ruhr-Universität Bochum, Institut für Mechanik (Germany) - Professor (1976-1977), Gastprofessor (1986-1988) + 15 research visits for 1-5 months in the period 1978-1997; Université de Poitiers (France) - Professor (April 2001), Visiting Professor (Oct. 2002, April 2003, Oct. 2006 - Jan. 2007)

Activities: General theory of finite rotations in shells. Energetically consistent displacemental versions of the non-linear theory of thin shells, also in terms of finite rotations. Bending theory of rubber-like shells. Intrinsic geometrically non-linear theory of thin elastic shells. Inverse problems in the non-linear theory of thin shells. Dynamically and kinematically exact six-field theory of multi-fold shells. Phase transitions in shells. Kinematics and compatibility of continuum deformation. Strain measures in the Cosserat continuum. Superposed deformations in non-linear elasticity. Multi-valued solutions of the linear shell theory.

Honours and memberships: PAsci Awards for outstanding research (1975, 1978, 1982); Award of Gda_Dsk Voivode (1981); Award of the Minister of National Education and Sport (2002); US Department of States Fullbright Grant (1971); Honorary member of the Polish Society of Theoretical and Applied Mechanics (2005); International Journal of Engineering Analysis and Design (Wiley Ltd.) - Member of editorial board; Transactions of the Institute of Fluid-Flow Machinery, PAsci, - Member of editorial board; Chairman of International Advisory Board of International Conferences "Shell Structures: Theory and Applications", 1986, 1998, 2002, 2005, 2009; Member of many professional societies and editorial boards of international conferences.

Books: Introduction to the Non-Linear Theory of Shells, Ruhr-Universität Bochum 1977; Finite Rotations and Lagrangean Description in the Non-Linear Theory of Shells, Pol. Sci. Publ., Warszawa-Poznań 1979; Finite rotations in the non-linear theory of thin shells, in: Thin Shell Theory, New Trends and Applications, ed. by W. Olszak, 153-208, Springer-Verlag, Wien 1980; Geometrically Non-Linear Theories of Thin Elastic Shells, Advances in Mechanics 12, 51-130 (1989); Non-linear Theories of Shells, in: Mechanics of Elastic Plates and Shells (in Polish), ed. by C. Woźniak, 424-497, PWN, Warszawa 2001; Thermomechanics of Shells with Singular Curves, Wydawn. IMP PAN, Gdańsk 2002; Statics and Dynamics of Multifolds Shells: Nonlinear Theory and Finite Element Method (in Polish), Wydawn. IPPT PAN, Warszawa 2004.

Papers: 115 original papers in journals and books, 151 lectures presented at scientific meetings (most published in proceedings), 12 edited volumes of Proceedings, 111 published reviews, over 200 other unpublished research reports

Born: 1939 Wilno Married: Romualda Children: Jacek (1963), Anna (1968)

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Hobbies: swimming, classical piano music