



Professor Maria Radwanska

See:

<https://www.l5.pk.edu.pl/~marad/>

https://www.researchgate.net/scientific-contributions/2103618239_Maria_Radwanska

Education:

1963-1969 Study at the Faculty of Civil Engineering, Cracow University of Technology

1969 M.Sc. Civil Engineering

1977 Ph.D. Dissertation: The Analysis of Stability and Post-Critical behaviour of Elastic and Elastic-Plastic Annular Plates

1991 Habilitation Monograph: Stability and Large Displacement Analysis of Plates and Shells by Use of FEM

Positions:

1969-1992 Assistant Professor, Institute of Structural Mechanics, Cracow University of Technology

1992-2006 Associate Professor, Institute of Computer Methods in Civil Engineering, Cracow University of Technology

2006 - Institute of Computational Civil Engineering, Section of Computational Analysis of Structures, Cracow University of Technology

Research Interests:

Structural mechanics (statics and stability); Theory and analysis of plates and shells; Numerical methods; Application of computer methods in civil engineering

Selected Publications:

Books:

Z. Waszczyszyn, Cz. Cichon and M. Radwanska, Stability of Structures by Finite Element Methods, Elsevier, Oct. 2013 (orig. 1994), 483 pages

Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, Plate and Shell Structures: Selected Analytical and Finite Element Solutions, Kindle, 2017, 424 pages

Journal Articles, etc.:

- Maria Radwanska and Zenon Waszczyszyn, "Buckling and post-critical deflection of elastic-plastic sandwich annular plates", *Rozprawy Inzynierskie*, Vol. 22, January 1974
- M. Radwanska and Z. Waszczyszyn, "Numerical analysis of nonsymmetric behaviour of elastic annular plates", *Computer Methods in Applied Mechanics and Engineering*, Vol. 23, pp 341-353, September 1980
- Waszczyszyn, Z., Radwanska, M., Pabisek, E., Application of the initial value method to analysis of elasto-plastic plates and shells of revolution, *Computers and Structures*, Vol. 16, No. 6., pp. 761-771, (1983).
- Gilewski W., Radwanska M.: A survey of finite element models for the analysis of moderately thick shells, *Finite Elements in Analysis and Design*, 1991, Vol. 9, 1-21.
- Radwańska, M. and Waszczyszyn, Z.: Buckling Analysis of a Cooling Tower Shell with Measured and Theoretically-Modelled Imperfections, *Thin-Walled Structures*, 23(1995), 107-121
- Waszczyszyn, Z. and Pabisek, E. and Pamin, J. and Radwanska, M.: Nonlinear analysis of a RC cooling tower with geometrical imperfections and a technological cut-out, *Eng. Struct.* , 22 (2000), 480-489
- Bielski, J. and Radwańska, M.: Computational problems of FE-analysis of elastic-plastic surface structures, *Computer Assisted Mechanics and Engineering Sciences*, 8(2001), 17-44
- Radwańska, M.: A survey of various FE models with conceptual diagrams for linear analysis, *Computer Assisted Mechanics and Engineering Sciences*, 13(2006), 209-233
- Radwańska, M.: An overview of selected plate and shell FE models with graphic presentation of governing relations, *Computer Assisted Mechanics and Engineering Sciences*, 14(2007), 431-456
- Maria Radwanska, Anna Stankiewicz and Adam Wosatko, "Numerical aspects of FEM analysis of plates and shells", a chapter in an unidentified book, January 2015
- Zenon Waszczyszyn, Czeslaw Cichon and Maria Radwanski, "Stability of structures by finite element methods", the publisher is not identified, June 2020

The following "chapters from an unidentified book" are almost certainly from the book:

- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, *Plate and Shell Structures: Selected Analytical and Finite Element Solutions*, Kindle, 2017, 424 pages
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Equations of thin shells according to the three parameter Kirchhoff-Love theory", Chapter 3 in an unidentified book, pp 31-47, December 2016, 10.1002/9781118934531.ch3
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "General information about models and computational aspects", Chapter 4 in an unidentified book, pp 48-55, December 2016, 10.1002/9781118934531.ch4
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Description of finite elements for analysis of plates and shells", Chapter 5 in an unidentified book, pp 56-71, December 2016, 10.1002/9781118934531.ch5
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Circular and Annular Plates under Bending", Chapter 9 in an unidentified book, pp 160-177, December 2016, 10.1002/9781118934531.ch9
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Shells in the membrane state", Chapter 10 in book, 978-1-118-93454-8, pp 179-204, February 2017, 10.1002/9781118934531.ch10
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Shallow shells", Chapter 12 in an unidentified book, pp 256-267, December 2016, 10.1002/9781118934531.ch12
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Thermal loading of selected membranes, plates and shells", Chapter 13 in an unidentified book, pp 268-286, December 2016, 10.1002/9781118934531.ch13
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Stability of plates and shells", Chapter 14 in an unidentified book, pp 287-322, December 2016, 10.1002/9781118934531.ch14
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Free vibrations of plates and shells", Chapter 15 in an unidentified book, pp 323-338, December 2016, 10.1002/9781118934531.ch15
- Maria Radwanska, Anna Stankiewicz, Adam Wosatko and Jerzy Pamin, "Advanced FE formulations", Chapter 18 in an unidentified book, pp 365-386, December 2016, 10.1002/9781118934531.ch18