
FARID MAHBOUBI NASREKANI

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PERSONAL INFORMATION

Born September 12, 1986, in Iran.

Marital status: Married

Children: 2 daughters (born April 16, 2014 and October 18, 2017)

PROFESSIONAL SUMMARY

Mechanical Engineer (Applied Mechanics) graduated in Ph.D with more than 6 years of training in industry and university and publishing 1 book (in Persian) and several papers (in ISI Journals and international conferences).

EDUCATION

Bachelor of Science: Robotic Engineering

Shahrood University of Technology

Shahrood.Iran

Supervisor: Dr. Ali Solyemani Aiouri

Project: Design and construction of the humanoid robot body by using CNC and Solid Works

2009

M.Sc.: Mechanical Engineering (Applied Mechanic)

Shahrood University of Technology

Shahrood.Iran

Supervisor: Dr. Hamidreza Eipakchi

Project: Buckling load determination of a thin cylindrical shell subjected to axial stress using first order shear deformation theory

2012

Ph.D.: Mechanical Engineering (Solid Dynamics)

Shahrood University of Technology

Shahrood.Iran

Supervisor: Dr. Hamidreza Eipakchi

Thesis Title: Analytical Solution for Buckling of Homogeneous and Isotropic Cylindrical Shells with Variable Thickness by Considering Initial Imperfection

2017

SKILLS

- Buckling and Vibration analysis training
- FEM and failure analysis
- Pressure vessel and shell design and analysis knowledge
- Math Works (Perturbation technique, Numerical method, etc)
- Software: MAPLE, MATLAB, ANSYS, Solid Works, ADVISOR

WORK HISTORY

R&D Engineer **September 2013 to Current**
Abarsazandegan shahvar knowledge-based company- Shahrood. Iran

- Assisted drafters in developing the structural and mechanical design of products using drafting tools or computer-assisted design (CAD) or drafting equipment.
- Planned and investigated results of analysis, modeling and experiments.
- Supported engineering designs through analysis and simulation by using software such as ANSYS and Solid Works.
- Developed and researched processes and plans for mechanical verification and product development.

Lecturer **September 2014 to Current**
University of Applied Science and Technology- Shahrood. Iran

- Mechanical department head from 2015 to 2017.
- Served on university affiliation board and revised the institute's policies and rules.
- Courses Taught
Bs.C: Vibrations, Dynamics, Engineering mathematics, Mechanics of materials, Theory of vehicle movement, Numerical methods, Statics

Lecturer **September 2013 to January 2015**
Shahrood University of Technology- Shahrood. Iran

- Course Taught
Bs.C: Technical Drawing

CURRENT RESEARCH TOPICS

- Plates and Shells
- Eigenvalue problems in Applied Mechanics
- Nonlinear Dynamics and Vibration

SELECTED PUBLICATIONS

Journal Papers

- **Mahboubi Nasrekani F.**, Eipakchi H.R., 2012, Elastic buckling of axisymmetric cylindrical shells under axial load using first order shear deformation theory, *Journal of Applied Mathematics and Mechanics (ZAMM)*, 92, No. 11 - 12, 937 - 944.
- **Mahboubi Nasrekani F.**, Eipakchi H.R., 2015, Nonlinear Analysis of Cylindrical Shells with Varying Thickness and Moderately Large Deformation under Non-uniform Compressive Pressure using First Order Shear Deformation Theory, *Journal of Engineering Mechanics(ASCE)*, Vol. 141, No. 5.
- **Mahboubi Nasrekani F.**, Eipakchi H.R., 2017, An analytical procedure for buckling load determination of cylindrical shells with variable thickness using first order shear deformation theory, *AUT Journal of Mechanical Engineering*, Vol. 1, No. 2, 211-218.
- **Mahboubi Nasrekani F.**, Eipakchi H.R., 2017, Analytical solution for buckling analysis of cylinders with varying thickness subjected to combined axial and radial loads, *International Journal of Pressure Vessels and Piping*, under review.
- **Mahboubi Nasrekani F.**, Eipakchi H.R., 2017, Axisymmetric Buckling of Cylindrical Shells with Non-uniform Thickness and Initial Imperfection, *International Journal of Steel Structures*, Under review.

Conference Papers

- **Mahboobi Nasrekani F.**, Eipakchi H.R.,2015, Effects of thickness profiles on buckling load of cylindrical shells with variable thickness, *3rd National and first International conference in applied research on electrical, mechanical and mechatronics engineering*, Malek ashtar university of technology, Tehran, Iran.
- **Mahboobi Nasrekani F.**, Eipakchi H.R.,2017, A mathematical method to investigate different profiles on deformation of cylindrical shells with variable thickness, *The 2nd National Conference of Mathematics: Advanced Engineering with Mathematical Techniques*, Islamic Azad University-Urmia Branch, Urmia, Iran.

Book

- **Mahboobi Nasrekani F.**, Mohamadi M., 2016, Training ADVISOR software for simulation and optimization of hybrid, electric and conventional cars, Farsiran, Tehran, Iran (in Persian).