

## 1. Personal Details

Full Name	Farzad Moayyedean	
Date of Birth	January 16, 1984	
Place of Birth	Mashhad, Iran	
Gender	Male	
Cell Phone	(+98) 915-514-8174	
Email address	farzad.moayyedean@eqbal.ac.ir farzad.moayyedean@gmail.com	

## 2. Current Position

- Assistant Professor, Department of Mechanical Engineering, Eqbal Lahoori Institute of Higher Education (ELIHE), Mashhad, Iran, **2010** to **present**.

## 3. Education and Qualification

Degree	Field of Study	Major	University	Country/City	Begin	End
Ph. D.	Mechanical Engineering	Solid Mechanics	Ferdowsi University of Mashhad	Iran/Mashhad	<b>2008</b>	<b>2014</b>
Master	Mechanical Engineering	Solid Mechanics	Ferdowsi University of Mashhad	Iran/Mashhad	<b>2006</b>	<b>2008</b>
Bachelor	Mechanical Engineering	Solid Mechanics	Islamic Azad University, Mashhad Branch	Iran/Mashhad	<b>2002</b>	<b>2006</b>

### 3.1. Doctor of Philosophy

- Dissertation Topic: Investigation into rate-independent and rate-dependent plasticity with non-linear finite element method.

### 3.2. Master of Science

- Thesis Topic: Analytical study on elastic-plastic flange wrinkling of circular sheets in deep drawing process.

### 3.3. Bachelor of Science

- Project Topic: Producing of bolts and nuts with cold forming process.

## 4. Language Proficiency

- Persian, Native,
- English, Professional,
- French, Elementary.

## 5. Research Interests

- Theory of Elasticity,
- Theory of Plasticity,
- Theory of Plates and Shells,
- Energy Principles in Solid Mechanics,
- Metal Forming,
- Anisotropic Sheet Metals,
- Composite and FGM Materials,
- Non-linear Finite Element and Mesh less Methods,
- Biomechanics,
- Theory of Vibration and Dynamics,
- Computational Mechanics and Numerical Methods such as finite element method and meshless approaches as well.

## 6. Work Experiences

- Eqbal Lahoori Institute of Higher Education (ELIHE), Mashhad, Iran, Faculty Member, **2010 to present**,
- Khavaran Institute of Higher Education, Mashhad, Iran, Adjunct Professor, **2017 to present**,
- University of Applied Science, Tasmimiyar Toos, Mashhad, Iran, Adjunct Professor, **2012 to present**,
- University of Applied Science, Jahad Daneshgahi, Mashhad, Iran, Adjunct Professor, **2014 to 2015**,
- University of Torbat-e-Heydarieh, Torbat-e-Heydarieh, Iran, Adjunct Professor, **2012 to 2013**,
- Islamic Azad University of Mashhad, Mashhad, Iran, Adjunct Professor, **2010 to 2011**.

## 7. Teaching Experiences

### 7.1. Graduate Courses

- Advanced Mathematics,
- Advanced Numerical Methods,
- Theory of Plates and Shells,
- Finite Element Method,
- Selective Topics in Applied Mechanics,
- Vibration of Continuous Systems,
- Continuum Mechanics.

### 7.2 Undergraduate Courses

- Strength of Materials,
- Plasticity and Metal Forming,
- Composite Materials,
- Engineering Mathematics,
- Ordinary Differential Equations,
- Statics,
- Dynamics,
- Theory of Vibration.

## 8. Publications

### 8.1. Journal Papers

- [15] Farzad Moayyedian and Mehran Kadkhodayan, Non-linear influence of hydrostatic pressure on yielding of asymmetric anisotropic sheet metals, *Mathematics and Mechanics of Solids*, **2018**, 23 (2), 159-180.
- [14] Farzad Moayyedian and Mehran Kadkhodayan, Two new non-AFR criteria for depicting strength differential effect (SDE) in anisotropic sheet metals, *Journal of Solid Mechanics*, **2018**, 10 (1), 67-85.

- [13] Farzad Moayyedian and Mehran Kadkhodayan, A modified burzynski criterion for anisotropic pressure dependent materials, *Sadhana-Academy Proceedings in Engineering Science*, **2017**, 42 (1), 95-109.
- [12] Farzad Moayyedian and Mehran Kadkhodayan, An advanced criterion based on non-AFR for anisotropic sheet metals, *Structural Engineering and Mechanics*, **2016**, 57 (6), 1015-1038.
- [11] Farzad Moayyedian and Mehran Kadkhodayan, Modified burzynski criterion with non-associated flow rule for anisotropic asymmetric metals in plane stress problems, *Applied Mathematics and Mechanics*, **2015**, 36 (3), 303-318.
- [10] Farzad Moayyedian and Mehran Kadkhodayan, Combination of modified Yld2000-2d and Yld2000-2d in anisotropic pressure dependent sheet metals, *Latin American Journal of Solids and Structures*, **2015**, 12 (1), 92-114.
- [9] Farzad Moayyedian and Mehran Kadkhodayan, A new implementation of a non-associated flow rule in rate-independent plasticity, *Journal of Computational and Applied Research in Mechanical Engineering*, **2015**, 5 (1), 3749.
- [8] Farzad Moayyedian and Mehran Kadkhodayan, A study on combination of von Mises and Tresca yield loci in non-associated viscoplasticity, *International Journal of Engineering*, **2014**, 27 (3), 441-448.
- [7] Farzad Moayyedian and Mehran Kadkhodayan, Implementing the new first and second differentiation of a general yield surface in explicit and implicit rate-independent plasticity, *Journal of Solid Mechanics*, **2014**, 6 (3), 310-321.
- [6] Farzad Moayyedian and Mehran Kadkhodayan, A closed-form semi-analytical elastic-plastic solution for predicting the onset of flange wrinkling in deep-drawing of a two-layered circular plate, *Iranian Journal of Mechanical Engineering Transaction of the ISME*, **2013**, 14 (2), 5-36.
- [5] Farzad Moayyedian and Mehran Kadkhodayan, A general solution for implicit time stepping scheme in rate-dependent plasticity, *International Journal of Engineering*, **2013**, 26 (2), 641-652.
- [4] Mehran Kadkhodayan and Farzad Moayyedian, Analytical elastic-plastic study on flange wrinkling in deep drawing process, *Scientia Iranica*, **2011**, 18 (2), 250-260.
- [3] Farzad Moayyedian and Mehran Kadkhodayan, Elastic-plastic flange wrinkling of circular plates in deep drawing process, *Key Engineering Materials*, **2011**, 462-463, 200-206.
- [2] Farzad Moayyedian and Mehran Kadkhodayan, An analytical study on elastic flange wrinkling of circular plates in deep drawing process, *International Journal of Advanced Design and Manufacturing Technology*, **2010**, 3 (2), 17-23 (in Persian).
- [1] Mohamad Rezaiee Pajand and Farzad Moayyedian, A Closed-form non-linear solution for plastic flange wrinkling of circular plates in deep drawing process, *International Journal of Engineering*, **2010**, 23 (3, 4), 203-214.

## 8.2. Conference Papers

- [17] Mohammad Bagher Emamai Kashani, Farzad Moayyedian and Vahid Soltani, Numerical comparison of the effect of shear stresses on accelerated functional graded disks with fixed velocity functional graded disks, *4<sup>th</sup> International Conference on Researches in Science & Engineering & International Congress on Civil, Architecture and Urbanism in Asia*, Kasem Bundit University, Bangkok, Thailand, **2019** (in Persian).
- [16] Farzad Moayyedian, Farshad Pourtaghi and Samira Moghaddam Kafi, A numerical investigation into effect of diameter and distances of rollers in final production of aluminum billet in rolling process, *5<sup>th</sup> International Conference on Applied Research in Electrical, Mechanical & Mechatronics Engineering*, Khajeh Nasir Toosi University of Technology, Tehran, Iran, **2019**.
- [15] Farzad Moayyedian, Farshad Pourtaghi and Abbas Abbasi Barkhordar, An investigation into effective parameters in hydroforming process of circular and square sheets with finite element method, *9<sup>th</sup> International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering (ICE-2018)*, Istanbul, Turkey, **2018**.

- [14] Farzad Moayyedean and Farshad Pourtaghi, Comprehensive review on bilayer and composite helical structures by using finite element method and their applications, *3<sup>th</sup> International Conference on Mechanical & Aerospace Engineering*, Khajeh Nasir Toosi University of Technology, Tehran, Iran, **2018**.
- [13] Farzad Moayyedean, The second differentiation of three well known anisotropic yield functions with respect to stress components, *26<sup>th</sup> Annual International Conference of Iranian Society of Mechanical Engineers (ISME2018)*, Semnan University, Semnan, Iran, **2018**.
- [12] Farzad Moayyedean and Saeed Esmaili, Experimental and numerical study on warm deep drawing of CK45 and DX53D alloy sheets, *1<sup>th</sup> National Conference on Applied Researches in Sciences and Engineering*, Eqbal Lahoori Institute of Higher Education, Mashhad, Iran, **2017** (in Persian).
- [11] Farzad Moayyedean and Mehran Kadkhodayan, Elastic-plastic flange wrinkling of circular plates in deep drawing process, *8<sup>th</sup> International Conference on Fracture and Strength of Solids (FEOFS)*, Kuala Lumpur, Malaysia, **2010**.
- [10] Farzad Moayyedean and Mehran Kadkhodayan, An analytical investigation on plastic flange wrinkling of laminated circular plates in deep drawing process, *18<sup>th</sup> Annual International Conference on Mechanical Engineering (ISME2010)*, Sharif University of Technology, Tehran, Iran, **2010**.
- [9] Farzad Moayyedean and Mehran Kadkhodayan, The effect of blankholder on flange wrinkling of laminated circular plates in deep drawing process, *10<sup>th</sup> Manufacturing Engineering Iranian Conference (ICME2010)*, Babol Noshiravani University of Technology, Babol, Iran, **2010**.
- [8] Farzad Moayyedean and Mehran Kadkhodayan, Obtaining an explicit solution for flange wrinkling of annular sheets with blankholder and with small deformation theory in deep drawing process, *10<sup>th</sup> Manufacturing Engineering Iranian Conference (ICME 2010)*, Babol Noshiravani University of Technology, Babol, Iran, **2010** (in Persian).
- [7] Farzad Moayyedean and Mehran Kadkhodayan, An analytical study on plastic flange wrinkling of circular plates with blankholder with using of large deformation theory in deep drawing process, *8<sup>th</sup> Annual (International) Conference of Iranian Aerospace Society*, Malek-Ashtar University of Technology, Isfahan, Iran, **2010** (in Persian).
- [6] Farzad Moayyedean and Mehran Kakkhodayan, An analytical study on elastic flange wrinkling of laminated circular plates in deep drawing process, *17<sup>th</sup> Annual International Conference on Mechanical Engineering (ISME2009)*, University of Tehran, Tehran, Iran, **2009**.
- [5] Farzad Moayyedean and Mehran Kadkhodayan, An analytical study on plastic flange wrinkling of circular plates with using of large deformation theory, *4<sup>th</sup> Conference of Metal Forming and Materials of Iran (MATFORM'87)*, Sharif University of Technology, Tehran, Iran, **2009** (in Persian).
- [4] Farzad Moayyedean and Mehran Kadkhodayan, An analytical study on plastic flange wrinkling of circular plates with using of small deformation theory, *4<sup>th</sup> Conference of Metal Forming and Materials of Iran (MATFORM'87)*, Sharif University of Technology, Tehran, Iran, **2009** (in Persian).
- [3] Farzad Moayyedean and Mehran Kadkhodayan, An analytical study on plastic flange wrinkling of circular plates with using of large deformation theory in deep drawing process, *9<sup>th</sup> Iranian Conference on Manufacturing Engineering (ICME 2009)*, University of Birjand, Birjand, Iran, **2009** (in Persian).
- [2] Farzad Moayyedean and Mehran Kadkhodayan, An analytical study on plastic flange wrinkling of circular plates with using of small deformation theory in deep drawing process, *9<sup>th</sup> Iranian Conference on Manufacturing Engineering (ICME 2009)*, University of Birjand, Birjand, Iran, **2009** (in Persian).
- [1] Hossein Behrouz and Farzad Moayyedean, Providing a new approach for using piezoelectric as a sensor and comparing its behavior with other existing sensors, *16<sup>th</sup> Annual International Conference on Mechanical Engineering (ISME2008)*, Shahid Bahonar University of Kerman, Kerman, Iran, **2008** (in Persian).

## 9. Computer Literacy

- Professional in computer programming with Matlab, Fortran and C++,
- Professional in simulation with Abaqus and Ansys,
- Professional in simulation with Nastran and Adams.

## 10. Professional Experiences

- Head of complementary education in Solid Mechanical Engineering, Eqbal Lahoori Institute of Higher Education, **2017 to present**,
- Distinguished Professor in Mechanical Engineering, Eqbal Lahoori Institute of Higher Education, **2017**,
- Invited Speaker, Environment and Materials Meeting (EMN), Orlando, USA, **2017**,
- Member of executive team and council of policy, *1<sup>th</sup> National Conference on Applied Researches in Sciences and Engineering*, Eqbal Lahoori Institute of Higher Education, Mashhad, Iran, **2017**,
- Distinguished referee, *1<sup>th</sup> National Conference on Applied Researches in Sciences and Engineering*, Eqbal Lahoori Institute of Higher Education, Mashhad, Iran, **2017**,
- Cooperation with a great research team work in Fedowsi University of Mashhad entitled 'Obtaining technical science in producing of steel fittings with extrusion process as the head of simulation team with Abaqus software, Mashhad, Iran, **2011 to 2012**,
- Designing and Supervising of Building Mechanical Installation Systems with work permit grade number one from Iranian Construction Engineering Organization in Province of Khorasan Razavi, **2009 to present**.

## 11. Supervision of Master Thesis

### 11.1. Students

- Vahid Soltani,
- Ali Kolahdouz.
- Mehdi Easi Zadeh Joveini,
- Mehdi Mohebbi,
- Nahid Sedarati,
- Alireza Abbasi,
- Vahid Ghamari,
- Navid Younesi,
- Rooh Allah Kooh Peyma,
- Amir Hossein Roohbakhsh.

### 11.2. Graduated

No.	Full Name	Thesis Topic	Date of Graduation	Major
15	Mostafa Hemmati Topkanlou	Numerical study of cylindrical composite pressure vessels using Finite Element Method	<b>2018/10/10</b>	Solid Mechanics
14	Ali Moradi	Study of deformation of an isotropic sheet with the method of fundamental solution and the method of particular solution.	<b>2018/10/10</b>	Solid Mechanics
13	Mehdi Jelveh Asoudeh	Simulation and experimental analysis on the deep drawing of cylindrical cups on the sheet St 12, Al 1050 and DC 03.	<b>2018/10/9</b>	Solid Mechanics
12	Mohammad Bagher Emami	Numerical study of the effects of effective parameters on rotating FG discs	<b>2018/10/9</b>	Solid Mechanics
11	Hossein Taj	Using the method of fundamental solution and the method of particular solution in order to investigation of deformation of an orthotropic sheet.	<b>2018/10/9</b>	Solid Mechanics

10	Azra Fakhrian	Investigation of effective parameters in low pressure tube hydroforming.	2018/10/9	Solid Mechanics
9	Ali Golestani	Oxygen injection in diex format and analysis of its results on the mechanical properties of the product.	2018/09/22	Solid Mechanics
8	Reza Borna	A numerical study on forming of steel plates with high thickness in multistep deep drawing process.	2018/09/12	Solid Mechanics
7	Samira Moghaddam Kafi	A numerical investigation into effect of diameter and distances of rollers in final production of aluminum billets in rolling process.	2018/09/12	Solid Mechanics
6	Meysam Ebrahimi	Analysis of elastic-plastic torsion of isotropic bars with meshless approaches and comparing the results with finite element method.	2018/05/26	Solid Mechanics
5	Seyyed Mohammad Jafari	Buckling analysis of curved sandwich panel with electro-rheological using improved high order sandwich panel theory.	2018/02/19	Solid Mechanics
4	Dariush Basiri	Application of method of fundamental solution in elastic-plastic torsion of anisotropic prismatic rods.	2018/02/19	Solid Mechanics
3	Abbas Abbasi Barkhordar	Numerical investigation of wall wrinkling in hydroforming process.	2018/02/12	Solid Mechanics
2	Ali Memariani	Vibration analysis of curved sandwich panel with electro-rheological using improved high order sandwich panel theory.	2018/02/05	Solid Mechanics
1	Saeed Esmaili	Experimental and numerical study on warm deep drawing of CK45 and DX53D alloy sheets.	2016/09/14	Fluid Mechanics

## 12. Interests

- Sport,
- Music,
- Theater,
- Movie.