

Hamid Ekhteraei-Toussi



Born: 30th Nov. 1961, Mashhad-Iran

Status: Married, having two children

A consecutive record of my activities:

B.Sc. in Mech. Eng., Ferdowsi University of Mashhad	Feb. 1984 - March 1988
Strength of Materials Lab. director	May 1988 - Jan. 1990
M.Sc. in Mech. Eng., Sharif University of Technology	Feb. 1990 - Sept. 1992
Lecturer in Ferdowsi University of Mashhad	Nov. 1992 - Jan. 1997
Ph.D. in Mech. Eng., Sharif University of Technology	Feb. 1997 - Oct. 2003
Sabbatical period in the University of Nottingham, UK.	March 2001 - Spt. 2001
Assistant professor in Ferdowsi University of Mashhad	Feb.2003 – Sept. 2011
Associate Professor in Ferdowsi University of Mashhad	Nov. 2011 – Feb.2018
Professor in Ferdowsi University of Mashhad	March 2018- Now

My dissertations:

<i>B.Sc. Dissertation (1988):</i>	Load Cell Design
<i>M.Sc. Dissertation (1992):</i>	Upsetting process FEM stress analysis
<i>Ph.D. Dissertation (2003):</i>	EFGM Interface crack stress analysis

Teaching Experience:

The courses taught in undergraduate and graduate levels of studies:

Undergraduate:

Statics, Dynamics, Strength of Materials I-II, Engineering Mathematics, Mechanical Vibrations, Materials science, Engineering Graphics

Graduate:

Advanced Mathematics, Advanced Numerical Methods, Continuum Mechanics, Mechanical Behavior of Materials, Theory of Plasticity, Creep-Fatigue-Fracture

Dissertation Supervision:

Directing more than 50 B.Sc. and 30 M.Sc. and 6 Ph.D. dissertations

(Detailed information is available on my webpage at <http://ekhteraee.profcms.um.ac.ir>)

Professional membership:

1. A member of Iranian Society of Mechanical Engineers (ISME).
2. A member of Iranian Mathematical Society

English Language:

I am good in reading, writing and understanding skills. Nonetheless, as I am not living in an English-speaking atmosphere, my speaking skill is not as good as the other skills.

Fields of Interest:**A. Education**

I am inclined and ready to further my current teaching duties. It includes all subjects previously taught in graduate and undergraduate levels and pointed out in my teaching experience section (above). The subjects mostly belong to the category of Fundamental Mechanical Engineering Sciences (Strength of Materials, Mechanical Vibrations, Engineering Mathematics, Continuum Mechanics)

B. Research

I am ready to work or collaborate in research activities with following natures:

1. Structural Mechanics (Computational, Analytical, Experimental or Simulation Techniques)
2. Mechanical behavior and damage of Materials (Thermo-Elasto-Plasticity, Creep, Fracture, Fatigue and Viscoelastic studies)
3. Numerical techniques in structural Analysis (Mesh-based and meshless methods)

Typical English research paper works:

(Detailed list of some others published papers, mostly in Farsi, are available at <http://ekhteraei.prof.msh.um.ac.ir>)

1. Yahya Bayat , Hamid Ekhteraei Toussi , *Damping capacity in pseudo-elastic and ferro-elastic shape memory alloy-reinforced hybrid composite beam*, Journal of Reinforced Plastics and Composites , Vol. 2019 , No.11, Pages 1-11.
2. Hamid EkhteraeiToussi, Yahya Bayat, *Layerwise/FSDT comparative studies on nonlinear transient response of SMA hybrid composite beam*, Smart Materials and Structures. 2018; 28(2). Doi:10.1088/1361-665X/aaf19a.
3. Yahya Bayat, Hamid EkhteraeiToussi, *A nonlinear study on structural damping of SMA hybrid composite beam*, Thin-Walled Structures. 2019; 134:18–28.
4. Yahya Bayat, Hamid EkhteraeiToussi, *Analytical layerwise solution of nonlinear thermal instability of SMA hybrid composite beam under non-uniform temperature condition*, Mechanics of Advanced Materials and Structures. Accepted on 13-Sep-2018.
5. Hodais Zharfi , Hamid Ekhteraei Toussi , *Time dependent creep analysis in thick FGM rotating disk with two-dimensional pattern of heterogeneity*, International Journal of Mechanical Sciences , Volume (140) , 2018-5, Pages 351-360
6. Hassan BeikMohammadlou , Hamid Ekhteraei Toussi , *Parametric studies on elastoplastic buckling of rectangular FGM thin plates*, Aerospace Science and Technology , Volume (69) , 2017-10, Pages 513-525
- 7.

8. Yahya Bayat, Hamid EkhteraeiToussi, *Exact solution of thermal buckling and post buckling of composite and SMA hybrid composite beam by layerwise theory*, Aerospace Science and Technology. 2017;67: 484–494.
9. Kaveh Oghbaei and Hamid Ekhteraei Toussi, *Compressive residual stress field in functionally graded material rotating disc under thermo-mechanical loading*, Journal of Reinforced Plastics and Composites. 2017; 36-17: 1239-1253.
10. Hodais Zharfi, Hamid Ekhteraei Toussi, *Numerical Creep Analysis of FGM Rotating Disc with GDQ Method*, Journal of Theoretical and Applied Mechanics. 2017: 55-1: 331-341.
11. Hassan Beik mohammadlou , Hamid Ekhteraei Toussi , *Exact stress and deformation analysis in elastoplastic Ramberg-Osgood beam* , Aerospace Science and Technology, 2016; 58 -9: 618-628.
12. Yahya Bayat, Hamid EkhteraeiToussi, *General thermo-elastic solution of radially heterogeneous, spherically isotropic rotating sphere*, Journal of Mechanical Science and Technology , Volume (29) , 2015-6, Pages 2427-2438
13. Hamid EkhteraeiToussi , Yahya Bayat , *Elastoplastic torsion of hollow FGM circular shaft*, Journal Of Computational and Applied Research In Mechanical Engineering , Volume (4), 2015-3, Pages 165-180
14. Mojtaba Sadeghian, Hamid EkhteraeiToussi , *Axisymmetric Elastoplasticity of a Temperature-Sensitive Functionally Graded Cylindrical Vessel*, Journal of Pressure Vessel Technology, Volume (136) , 2014-1, Pages 61203-61211
15. Mojtaba Sadeghian , Hamid Ekhteraei Toussi, *Solutions to the problem of thermomechanical yielding in functionally graded material cylindrical vessels*, Journal of Reinforced Plastics and Composites, Volume (32), 2013-11, Pages 1624-1633.
16. Mahdi Rezaei , Hamid Ekhteraei Toussi , *Plastic limit speed of FGM disc due to the variation of temperature and material composition*, Journal of Reinforced Plastics and Composites, Volume (32), 2013-7, Pages 257-267
17. Hamid Ekhteraei Toussi , Mojtaba Sadeghian , *Elasto-Plastic Axisymmetric Thermal Stress Analysis of Functionally Graded Cylindrical vessels*, Journal of Basic and Applied Scientific Research , Volume (2) , 2012-10, Pages 10246-10257
18. Hamid EkhteraeiToussi, Mahdi RezaeiFarimani, *Elasto-plastic deformation analysis of rotating disc beyond its limit speed* , International Journal of Pressure Vessels and Piping, Volume (89) , 2012-1, Pages 170-177
19. AmirAli AmiriMoghadam , Majid Moavenian , Hamid EkhteraeiToussi, *Modelling and robust control of a soft robot based on conjugated polymer actuators*, International Journal of Modelling, Identification and Control, Volume (14), 2011-9, Pages 216-226.
20. Mojtaba Sadeghian , Hamid EkhteraeiToussi , *Axisymmetric yielding of functionally graded spherical vessel under thermo-mechanical loading*, Computational Materials Science, Volume (50) , 2011-1, Pages 975-981
21. Mojtaba Sadeghian, Hamid EkhteraeiToussi , *Frequency analysis for a Timoshenko beam located on an elastic foundation*, International Journal of Engineering, Volume (24), 2011-2, Pages 87-105
22. MohammadHossein Kargarnovin, Hamid Ekhteraei-Toussi, Shahriar Fariborz, *Elasto-Plastic Element-Free Galerkin Method*. Journal of Computational Mechanics , Vol. 33, No. 3, Feb. 2004

23. Hamid ZabihiFerezghi , Masoud Tahani , Hamid EkhteraeiToussi, *Analytical Approach to Free Vibrations of Cracked Timoshenko Beams Made of Functionally Graded Materials*, Mechanics of Advanced Materials and Structures, Volume (17) , 2010-7, Pages 353-365
24. Mohammad Amini, Hamid Ekhteraei Toussi, Mahmoud Shariati, *An experimental study of the ratcheting effect on the fatigue life of welded Alluminium 2024 by using Taguchi method* , The Biennial International Conference on Experimental Solid Mechanics , Theran- Iran, 2016-02-16
25. Morteza Ashhdi, Hamid Ekhteraei Toussi, *Structural analysis for the autofrettage of FGM cylindrical vessels*, The International Conference On Advances in Civil and Structural Engineering - CSE 2014, Kulalampour-Malasia, 2014-08-02
26. Hamid EkhteraeiToussi, Hamed Izadi Ghoddusi, *An enhanced iterative method for inverse structural problems*, ACEX 2010, Paris-France, 2010-07-08
27. Hamid Ekhteraei-Toussi, Javad Goharian, *Fluidization in a vibrated column of spherical particles*, International Conference on Advances in Mechanical Engineering, ICAME 2009, Malaysia, 2009-09-24
28. Hamid Ekhteraei-Toussi, Mahdi Rezaei-Farimani, *Comparative analysis using FEM, EFGM, BEM and CVM*, International Conference in Engineering and Mathematics, ENMA 2007, Bilbao-Spain, 2007-07-09
29. MohammadHossein Kargarnovin, Hamid Ekhteraei-Toussi, Shahriar Fariborz, *Stress analysis around crack tip under elasto-plasto-creep condition using Element Free Galerkin Method*. 11th Annual Conference of Mechanical Engineering, ISME 2003, Mashhad-Iran, 2003-05-06
30. MohammadHossein Kargarnovin, Hamid Ekhteraei-Toussi, Shahriar Fariborz, *Analysis of elasto-plastic plane cracked problems using Element Free Galerkin Method*. 11th Annual Conference of Mechanical Engineering, ISME 2003, Mashhad-Iran, 2003-05-06
31. Hamid Ekhteraei-Toussi, MohammadHossein Kargarnovin, *Elasto-plastic crack tip stress analysis using Element Free Galerkin Method*. Represented in the 8th Iranian students' seminar in Europe. Manchester, May 2001

Books (In Farsi):

Hamid ekhteraeiToussi, Hadi kalani, *An introduction to Continuum Mechanics*, Nama publishing company, Mashhad, Iran, 2011.

Hamid ekhteraeiToussi, MohammadHossein Sakeeb, *A Survey of Solid Mechanics*, Sharif Publishing Company, Tehran, Iran, 2018.

Citations and contacts:

Web:

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