Saeed Reza Mohebpour

Associate Professor and Researcher of Mechanical Engineering

1) Personal

Name:	Saeed Reza
Family Name:	Mohebpour
Date of Birth:	23/9/1961
Place of Birth:	Shiraz, IRAN
Nationality:	Iranian
Affiliation:	Assistant Professor of Mech. Eng. Dept. in Persian Gulf University, Bushehr, Iran

2) Education

- **Primary and High School**

1968-1973	Elementary School, Ministry of Education and Culture, Iran
1973-1976	Second Elementary, Ministry of Education and Culture, Iran
1976-1980	High School, Ministry of Education and Culture, Iran

- **Undergraduate Study**

1980-1987 **B.S,**Mechanical Engineering Department, School of Engineering, Shiraz University, Shiraz, Iran, (Average 3.29/4.)

- **Graduate Study**

1988-1991 **M.S**, Mechanical Engineering Department, School of Engineering, Shiraz University, Shiraz, Iran, (Average 17.26/20.)

- **M.S Thesis**

Dynamic Analysis of Flat Plate under the Moving Loads by Finite Element Method

- **Graduate Study**

1991-1998 **Ph.D**, Mechanical Engineering Department, School of Engineering, Shiraz University, Shiraz, Iran, (Average 17.77/20.)

- **Ph.D Thesis**

Nonlinear Dynamic Analysis of Unsymmetrical Composite Laminated Beams Under The Action of Moving Loads including Shear Deformation

3) Employment

Contractual Mechanical Engineer, The Emblem of Nasht Ab Company (1986-1987)
Lecturer, Semnan Institute Of Technology in Semnan (1987- 1988)
Lecturer, Shiraz University (September1992-October 1997)
Design Engineer of Air Conditioning and Ventilation system at Shiraz City (Since 1998)
Visiting Lecturer, Islamic Azad University of Bushehr (Since May 1998)
Associate Professor, Persian Gulf University (Since September 1998)
Associate Consultant, Sazeman Nezam Mohandesi Engineering Co. (Since October 1999)

4) Experience

4-a) Education

Sep.1991-present	Tutor of the Undergraduate Mechanical Engineering Students
Sep. 2001-present	Tutor of the Graduate Stractural Engineering Students
July 2002-present	Associate Advisor of Graduate Thesis in Mechanical Engineering
July 2002-present	Researcher in Machine dynamic and Vibration Laboratory
July 2002-present	Editor of the Engineering Journal of PGU University
Sep. 2004-present	Tutor of the Graduate Mechanical Engineering Students

4-b) Teaching Duties

At the undergraduate level

- Static and Strength of Materials I (The 17th years)
- Dynamics (The 17th years)
- Computer programming (The 2nd years)
- Thermodynamics (The 2nd years)
- Engineering Mathematics (The one years)
- Mechanical Design Engineering I and II (The 5thyears)
- Auto-Mechanics Workshop (The 4thyears)
- Strength of Materials II (The 4th years)
- Strength of Materials Laboratory (The 7th years)
- Heat Transfer (The 4th years)
- CFD (The 2nd years)
- Supervision of final years B.sc.Eng. projects
- Supervision of final years M.sc.Eng. projects

At the postgraduate level

- Associate Advisor of Seven Postgraduate Thesis in Structural and Mechanical Eng. (Since July 2002)
- Advanced Engineering Mathematics I and II (The 3rd years)
- Theory of Elasticity and Applications (The 11th years)
- Finite Element Method (The 11th years)
- Calculus of Variations and Applications (The 1st years)
- Nonlinear Finite Element Method (Ph.D. Course The 1st years)

4-c) Administrative

Member of various Committees and International Bodies:

2002- 2004	Head of Mechanical Engineering Department (PGU)
2006- 2008	Head of Mechanical Engineering Department (PGU)

2000	Member of Scientific committee of 9th annual and 5th international mechanical Engineering conference Gilan University
2000	Member of Scientific committee of First international conference of Battery Iran Science and Industry University
2001-2004	Member of Scholarship council of Persian Gulf University
2003-Present	Member of Promotion committee of Persian Gulf University
2002-Present	Iranian Society of Mechanical Engineers (ISME)
1999- Present	Mechanical Department Committee (PGU)
2010- present	Member of publication organize of Persian Gulf university

5) Publications

5-a) Books

- The dynamic response of the Asymmetric composite laminated beam carrying moving masses Computational Methods and Experiments in Materials Characterization II. Book Chapter pp: 23-32 .WIT press 2005
- Strength of material Laboratory manual (guide for students)
- Physics Laboratory manual (guide for students)
- Vibration and Machine Dynamic Laboratory manual (guide for students)

5-b) Scientific Papers

+ *Journal papers*

1. M.H. Kadivar, and **S.R. Mohebpour**, "Forced vibration of Unsymmetrical laminated composite beams under the action of moving load " International Journal of Composite Science and Technology, Vol. 58, No. 10, pp: 1675-1684, 1998.

2. M.H. Kadivar, and **S.R. Mohebpour**, "Finite element dynamic analysis of Unsymmetrical composite laminated beams with shear effect and rotary inertia under the action of moving load " International Journal of Applied Finite Element and Computer Aided Engineering, Vol. 29, pp: 259-273, 1998.

3. **S.R. Mohebpour,** and G. Dehdashti, "Finite Element Analysis of Thin Beam under to the action of Moving Loads"Scientific Journal of the Moscow State University of Railway Engineering, Vol. 12 pp: 53-61, 2005.

4. G. Karami, and P. Malekzadeh and **S.R. Mohebpour,** "DQM Free Vibration Analysis of Moderately Thick Symmetric Laminated Plates with Elastically Restrained Edges"International Journal of Composite Structures, Vol. 74 pp:115- 125, 2006 .

5. **S.R. Mohebpour** , P. Malekzadeh and K. Hooman**,** "The dynamic response of the asymmetric composite laminated beam carrying moving masses"Computational Methods and Experiments in Materials Characterization II. Book Chapter pp: 23-32 .WIT press 2005.

6. K. Hooman, and **S.R. Mohebpour** , "Numerical Investigation of Temperature-Dependent Viscosity Variation Effects on Thermally Developing Forced Convection through a Porous Medium" International Journal of Heat Transfer Research, Vol . 38, No. 1 pp: 1-8, 2007.

7. M. Rahimpour,**S.R. Mohebpour** , A.Kimiaeifar and H.Bagheri**,** "On the analytical Solution of Axisymmetric stagnation flow towards a shrinking sheet"International Journal of Mechanics ,Vol 2, pp: 1-10, 2008.

8. K. Hooman, F. Hooman and **S.R. Mohebpour** , "Entropy generation for forced convection in a porous channel with isoflux or isothermal walls" International Journal of Exergy, Vol . 5, No. 1 pp: 78-96, 2008.

9. A. Kimiaeifar, G. Domairry, **S.R. Mohebpour** , A. R. Sohouli**,**and A.G. Davodi "Analytical Solution for Large Deflections of a Cantilever Beam under Nonconservative Load Based on Homotopy Analysis Method"International Journal ofNumerical Methods for Partial Differential Equations, published online in Wiley Interscience Nov 6 2009 DOI:10.1002/num.20538.

10. **S.R. Mohebpour**,A.R.Fiouz, and A.A. Ahmadzadeh , " Dynamic investigation of laminated composite beams with shear and rotary inertia effect subjected to a moving oscillators using FEM " International Journal of Composite Structures, Vol. 93 pp:1118- 1126, 2011.

11. **S.R. Mohebpour**, P. Malekzadeh, and A.A. Ahmadzadeh , " Dynamic analysis of laminated composite plates subjected to a moving oscillator by FEM " International Journal of Composite Structures, Vol. 93 pp:1574- 1583, 2011.

12. **S.R. Mohebpour**, M. Vaghefi , " The use of stress reducer in suddenly changed section of rounded shafts " Applied Mechanics and Materials Vol. 147 (2012) pp 9-13 online available Trans Tech publication, DOI:10.4028/www.scientific.net / AMM.147.9.

13. A. R. Sohouli, A. Kimiaeifar , A. Mohsenzadeh and **S.R. Mohebpour**, " Large deformation analysis of Euler-Bernoulli beamshell under own weight based on HAM " Central European journal of Engineering, Published online in Springer publication ,Jul 7 2011 DOI:10.2478/s13531-011-0044-3.

14. M. Vaghefi, **S.R. Mohebpour**, and A. Rohani, " An comparative study of displacement modification factor for steel structure with Iranian structural design codes " . Accepted to be published in journal of Bana, ISCE , 2012.

15. M. Vaghefi, **S.R. Mohebpour**, and A. Rohani, " An comparative study of behavior factor in allowable strength situation for steel structure with Iranian structural design codes " . Accepted to be published in journal of Bana , ISCE, 2012.

16. M.Rafiei, **S.R. Mohebpour**, and F. Daneshmand " small-scale effect on the vibration of non-uniform carbon nanotubes conveying fluid and embedded in viscoelastic medium " International journal of Physica E, Published online in Elsevier publication Physica E Low-dimensional Systems and Nanostructures 01/2012; 44(7–8):1372-1379 ,Feb17 2012.

17. M. Vaghefi, , **S.R. Mohebpour**, and A. Rohani, " A Study of Overstrength Factor of CBS Steel Structures with Assessment of 2800 Code Corresponding Values " , Research Bulletin of Seismology and Earthquake Engineering, International institute of Earthquake Engineering and Seismology (IIEES), Vol. 14, No. 3, 2012.

18. P.Malekzadeh , **S.R. Mohebpour**, and Y. Heydarpour " Nonlocal effect on the free vibration of short nanotubes embedded in an elastic medium " International journal of Acta Mechanica, Published online in Springer publication ,Feb19 2012 DOI:10.1007/s00707-012-0621-4.

19. **S.R. Mohebpour**, F. Daneshmand, and H.A. Mehregan " Numerical analysis of inclined flexible beam carrying one degree of freedom moving mass including centrifugal and Coriolis

accelerations and rotary inertia effects " Accepted to be published in International journal of Mechanics Based Design of Structures and Machines, 2012.

20. M. Vaghefi, H. Bagheri and **S.R. Mohebpour**, " Nonlinear Analysis of Offshore Helidecks Due to the Helicopter Emergency Landing Loads " Middle-East journal of Scientific Research 13 (10) : 1351-1358, 2013 DOI: 10.5829/idosi.mejsr.2013.13.10.1219.

21. **S. R. Mohebpour**,"Deflection prediction ofinflatable flat panels under arbitrary conditions " International journal of Structural Engineering and Mechanics, Vol. 45, No. 6 (2013) 853-865,2013.

22. F. Khodabakhshi,M. Abbaszadeh, H. Eskandari, and **S.R. Mohebpour**," Application of CGP-cross route process for microstructure refinement and mechanical properties improvement in steel sheets " International Journal of Manufacturing Processes 01/2013; 15(4): page 533–541, 2013.

23. F. Daneshmand, M. Rafiei, **S.R. Mohebpour,** and M. Heshmati " Stress and strain-inertia gradient elasticity in free vibration analysis of single walled carbon nanotubes with first order shear deformation shell theory " International journal of Applied Mathematical Modelling,Volume 37, Issues 16–17, 1 September 2013, Pages 7983-8003.

24. E. Bahmyari, **S.R. Mohebpour**,and P. Malekzade " Vibration Analysis of Inclined Laminated composite Beams under Moving Distributed Masses " International journal of Shock and Vibration Vol. 2014, Article ID 750916, page 1-12, Hindawi Publication Corporationhttp://dx.doi.org/10.1155/2014/750916 2014.

25. F. Khodabakhshi,M. Abbaszadeh, **S.R. Mohebpour**, and H. Eskandari, " 3D finite element analysis and experimental validation of constrained groove pressing-cross route as an SPD process for sheet form metals " The International Journal of Advanced Manufacturing Technology, Vol. 73, page 1291- 1305, 2014.

++Papers inConference:

1. M.H. Kadivar, and **S.R. Mohebpour**,"Analysis of flat plate under moving load by finite element method " Second International Engineering Conference, Dec.21-24, pp:1-13, 1991, AL-Azhar university, Cairo, Egypt.

2. **S.R. Mohebpour** and M.H. Kadivar, "Two-dimensional dynamic solution of beam under the action of moving load using finite element method "Second International Mechanical Engineering Conference, May 14-17, pp: 695-706, 1996, Shiraz university, Shiraz, Iran.

3. M.H. Kadivar, and **S.R. Mohebpour**, "Free Vibration analysis of an Unsymmetric orthotropic composite laminated beams including shear deformation and rotary inertia " 5th Annual ISME International Conference, May 4-6, pp:803-811, 1997, Tabriz university , Tabriz, Iran.

4. **S.R. Mohebpour**,A. Kimiaeifar and M. Rahimpour "Optimization of heat transfer channel with variable geometry and Debby " 16th Annual ISME International Conference, May 13-15, pp:1-8, 2008, Shahid Bahonar Kerman university , Kerman, Iran.

5. **S.R. Mohebpour**, M. Heidari, E. Harirbafan , and F. Daneshmand " Analysis of Flexible Joint in Thrust Vector Control system " International conference of the Canadian Society for Mechanical Engineering CSME Forum, June 7-9 , pp : 1-7, 2010.

6. A. Najafi , F. Daneshmand and **S.R. Mohebpour**, " Analysis of Vibrating Micropolar Plate in Contact with Fluid " 7th International Symposium on Fluid-Structure interaction, Flow-Sound interactions andFlow-InducedVibration & Noise ASME , August1-4 , pp : 1-7, 2010.

7. A.R.Rasouli, M. Sadraei, and **S. R. Mohebpour**, "Prediction of Solar Radiation in Bushehr Using Artificial Neural Networks "18th Annual International Conference on Mechanical Engineering-ISME2010 11-13 May, pp : 1-5 , Sharif University of Technology, Tehran, Iran,2010.

8. M. Vaghefi, **S.R. Mohebpour**, S.S. Hashemi, and H. Parish " survey of building vibration parameters in a bending frame system with and without steel shear walls " 4th International conference on Seismic Retrofitting , Tabriz, Iran, 2-4 May , pp : 1-11, 2012.

9. M. Vaghefi, **S.R. Mohebpour**, S.S. Hashemi, and H. Parish " survey of seismic behavior in wavy steel shear walls " 4th International conference on Seismic Retrofitting , Tabriz, Iran, 2-4 May , pp : 1-9, 2012.

10. H.A. Mehregan, **S.R. Mohebpour**,and F. Daneshmand, " Numerical analysis of inclined isotropic beam with the Coriolis force and Centrifugal force effect subjected to moving sprung mass using a FEM approach "Australasian Structural Engineering Conference 2012: The past, present and future of Structural Engineering,Barton, A.C.T. pp: 1041-1053. Availability: <http://search.informit.com.au/documentSummary;dn=029330852775283;res=IELENG> ISBN: 9780858258714. 2012.

11. S. Safaei Lorki, R. Fatehi, and **S.R. Mohebpour** " ++++++++++
12. **S.R. Mohebpour,** P. Malekzade, and V. Shokohifard, "++++++++++

6) Grants and Awards

1. **Persian Gulf University** (2003-2004)"Using a porous segment to increase thermal efficiency by converting gas enthalpy to thermal radiation in high temperature industrial furnaces"
2. **Persian Gulf University** (2003-2004)"Effects of viscous dissipation on thermally developing forced convection in a fluid-saturated porous medium"
3. **Persian Gulf University** (2004-2005)"Temperature-dependent viscosity effects on forced convection in a fluid-saturated porous medium"
4. **Bushehr Province Management** (2004-2005) "Investigation of methods of economizing energy consumption, especially in Bushehr province"
5. **Persian Gulf University** (2005-2006)"DQM free vibration analysis of moderately thick symmetric laminated plates with elastically restrained edges"

7) Languages

Fluent Persian and English both in writing and speaking
English: Graduated from Iran - EnglandLanguage Society (1971-1973)
English: Graduated from Iran - AmericanLanguage Society (1973-1978)
MCHE: Band 58 (January1996)
IELTS: Band 6 (March 2009)

8) Software and Computer Skills

- Ansys
- Matlab
- Mathcad
- Fortran (Msdev, Visual Fortran, Fortran 77, Lahy)
- Quick Basic
- Table Curve
- Operating systems such as: Windows 98, 2000, NT, XP and also Dos.
- Editing soft wares as Office, Excel, ...
- Internet explorer

9) FEM Works

- Dynamic analysis of flat plate under moving load
- Dynamic analysis of Unsymmetrical composite laminated beams under moving load
- Numerical response of composite laminated beams under the action of moving masses
- Free vibration of composite laminated beams and flat plates
- Two dimensional steady and transient conduction on a square block
- Two dimensional wave equation in general form
- Grid generation in the space between two circles with different circles by algebraic and differential methods
- Thermal radiation in one-dimensional channel flow of a high temperature furnace
- Flow on a two-dimensional backward vane of a centrifugal pump
- Dissipative flow in a porous medium channel or tube and heat transfer aspects
- Perturbation method to solve second type elliptic integral equations

10) Contact Information

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