

## Mahmood HOSSEINI's Detailed Curriculum Vitae

Updated in November 2014



**Visiting Seville, Spain During the iCERi Conference, Nov. 2014**

### **Present Occupations:**

Associate Professor at Structural Engineering Research Center, Board Member of the Center of Excellence on Risk Management, and Head of Lifeline Engineering Department, The International Institute of Earthquake Engineering and Seismology (IIEES)

**Address:** No. 21 West Arghavan, North Dibaji St., Farmanieh, Tehran 19537, Iran, or P. O. Box 19395-3913, Tehran, Iran, Tel: +98 21 2283 1116-9, Fax: +98 21 2280 3933

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Part-time Faculty Member at Civil Engineering Department, Graduate School, South Tehran Branch of the Islamic Azad University (IAU)

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### **EDUCATION:**

**B.Sc.** in Civil Engineering, Civil Engineering Department, School of Engineering, Tehran University, 1985 (extended directly to M.Sc. studies)

**M.Sc.** in Civil Engineering (continuously after B.Sc. studies) – Majoring in Structural Engineering, Civil Engineering Department, School of Engineering, University of Tehran, 1987.

*Thesis Title: Dynamic Analysis of Multi-Span Beams Having Internal Discontinuity Under Impulsive Loads*

**Ph.D.** in Civil (Structural) Engineering, Concentrating on Dynamics of Structures and Earthquake Engineering, Civil Engineering Department, Science and Research Branch of the Islamic Azad University (IAU), Tehran, Iran, 1991\*.

*Dissertation Topic: Stochastic Response of Nonlinear MDOF Systems Subjected to Non-stationary Earthquake Excitations*

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\* This has been the first Ph.D. awarded inside Iran in the Engineering Field.

### **SABBATICAL LEAVE:**

- Conducting a thorough study on “Seismic Upgrading of Gas and Water Systems”, Sabbatical Leave Study and Research Work, School of Civil and Environmental Engineering, **Cornell University, USA**, June 2001-September 2002.
- Developing a curriculum for a course entitled “Earthquake Considerations in Architectural and Urban Design”, proposed to and approved by the School of Architecture of **Cornell University**, and teaching that course there in second semester of school year 2001-2002.
- Teaching a course entitled “Structural Concept” in the School of Architecture of **Cornell University** in summer semester of 2002.

### **COMPLEMENTARY EDUCATION (most recent first):**

- Seismic Isolation – Theory, Practice and Techniques for Developing Countries, Short course at IIEES, Instructed by Prof. James Kelly from University of California at Berkeley, USA, and Dr. Farzad Naeim from John A. Martin & Associates, USA, May 1999.
- Earthquake Resistant Design of Reinforced Concrete Structures, Short course at IIEES, Instructed by Prof. Thomas Paulay from University of Canterbury, New Zealand, May 1995.
- Aseismic Design of Steel and R/C Structures, Lectures presented at IIEES by Dr. Farzad Naeim from John A. Martin & Associates Inc., USA, June 1994.
- Random Vibrations with Application to Earthquake Engineering, and Recent Advances in Passive and Active Control, Short Course at IIEES Instructed by Prof. G. Ahmadi from Clarkson University, USA, July 1993.
- Lessons from Earthquake Damages, Seismic Diagnostic Method, Repair and Retrofitting, and Design Guidelines, Lectures Presented at IIEES by Dr. M. Hirose from BRI, Japan, March 1992.
- Forced vibration, Seismic Instrumentation, and Testing of Buildings, Lectures presented at IIEES, by Dr. Y. Yamazaki from BRI, Japan, November 1991.

### **SPECIAL TRAININGS AND VISITS (most recent first):**

- Earthquake Sources and Regional Lithospheric Structures from Seismic Wave Data, A One-month Course held at International Center for Theoretical Physics (**I.C.T.P.**), **Italy**, in November 1990, and taught by Professors from Italy, USA and Russia, including Professors Panza, Jordan (from MIT), and Levinsky, etc.
- A 45-day Scientific and Technical Visit in 1989 to **Japan**, visiting several Japanese universities and research centers, including Earthquake Engineering Research Center of Tokyo University, Institute of Industrial Science (IIS), Chiba Experimental Station of Tokyo University, Kajima Corporation, Tsukuba Science City, Okumura Corporation, Tsukuba University, Building Research Institute (BRI), Public Work Research Institute (PWRI), Kyoto University and its Uji Campus, Kobe University, and Port Island, during which I visited several professors and researchers, including Professors Minami, Katayama, Okamoto, Kameda, Iemura, Minaii, Matsushima, Yamazaki, and Takada, and had technical discussion with some of them with regard to various Earthquake Engineering Issues, as well as my Ph.D. Dissertation.

## **PUBLICATIONS:**

### **Peer-reviewed Journal Papers (oldest first): (Papers in green are ISI papers.)**

1. **Hosseini, M.** and Imagh-e-Naiini, M., A Quick Method for Estimating the Lateral Stiffness of Building Systems, **International Journal of Structural Design of Tall Buildings**, Vol. 8, pp 247-260, September 1999. (5.5)
2. **Hosseini, M.** and Mohajer, M., Effects of Foundation Geometry on the Natural Periods of Tank-Liquid-Foundation Systems, **International Journal of Seismology and Earthquake Engineering (JSEE)**, fall and winter 2000. (4)
3. Mansour-Khaki A., **Hosseini, M.**, and Shariat, A., Evaluating the Performance of Urban Transportation Networks in the Aftermath of an Earthquake in Large Populated Cities, **International Journal of Engineering**, Vol. 14, No. 4, 2003. (2.5)
4. **Hosseini, M.**, On the Nonstructural Elements and Their Behavior in the Bam Earthquake of 26 December, 2003, **International Journal of Seismology and Earthquake Engineering (JSEE)**, Special Issue on Bam Earthquake, winter and spring 2004. (5)
5. Hawaii, M. H. and **Hosseini, M.**, Bam Earthquake from Emergency Response to Reconstruction, **International Journal of Seismology and Earthquake Engineering (JSEE)**, Special Issue on Bam Earthquake, winter and spring 2004. (2)
6. Mahmoudabadi M., Ghafory-Ashtiany, M. and **Hosseini, M.**, Identification of Modal Parameters of Classically Damped Linear Structures under Multi-Component Earthquake Loading, **International Journal of Seismology and Earthquake Engineering (JSEE)**, Vol. 7, No. 1, spring 2005. (2)
7. Izadkhah, Y. O. and **Hosseini, M.**, Towards Resilient Communities in Developing Countries through Education of Children for Disaster Preparedness, **International Journal of Disaster Management**, Vol. 2, No. 3, 2005. (2)  
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8. **Hosseini, M.**, Behavior of Nonstructural Elements in the 2003 Bam, Iran Earthquake, **Earthquake Spectra**, Vol. 21, No. S1, pages S439-S453, December 2005. (5)
9. **Hosseini, M.** and Izadkhah, Y. O., Earthquake Disaster Risk Management Planning in Schools, **International Journal of Disaster Prevention and Management**, Vol. 15, No. 4, pp. 649-661, August 2006. (3.5)
10. Mahmoudabadi M., Ghafory-Ashtiany, M. and **Hosseini, M.**, Identification of Modal Parameters of Non-Classically Damped Linear Structures under Multi-Component Earthquake Loading, **International Journal of Earthquake Engineering and Structural Dynamics**, Vol. 36, No. 6, pp765-782, 2007. (2)
11. Ghafory-Ashtiany M. and **Hosseini, M.**, Post Bam Recovery and Reconstruction, **International Journal of Natural Hazards**, Vol. 44, No. 2, pp229-241, Feb. 2008. (2)
12. Firoozi Nezamabadi, M., Moghadam, A. S., and **Hosseini, M.**, The Effect of Vertical Component of Earthquake on Seismic Response of Torsionally Coupled Systems, **Journal of Applied Sciences**, Year 2008, Volume 8, Issue 22, Page No. 4029-4039. (1.5)
13. Yaghoobi Vayeghan, F., and **Hosseini, M.**, Proposing a Quick Seismic Risk Evaluation Method for Inter-City Road Systems (in Persian), **Journal of Transportation Research**, Transportation Research Institute, Vol. 6, No. 1, Spring 2009. (1.5)
14. Azizpour, O. and **Hosseini, M.**, A Verification Study of ASCE Recommended Guidelines for Seismic Evaluation and Design of Combination Structures in Petrochemical Facilities, **Journal of Applied Sciences**, Vol. 9, No. 20, pp3609-3628, 2009. (1.5)

15. Jahangiri, Katayoun, Ostovar Izadkhah, Yasamin, Montazeri, Ali, and Hosseini, M., People's Perspectives and Expectations on Preparedness Against Earthquakes: Tehran Case Study, **Journal of Injury and Violence Research**, Vol. 1, No. 2, 2009. (1)
16. Haddad Shargh, F. and Hosseini, M., A study on the existence of an optimal distribution of stiffness over the height of mid- to high-rise buildings to minimize the seismic input energy, **Journal of Applied Sciences**, Vol. 10, No. 1, pp45-51, January 2010. (1.5)
17. Hosseini, M. and Izadkhah, Y. O., Training Emergency Managers for Earthquake Response: Challenges and Opportunities, **International Journal of Disaster Prevention and Management**, Vol. 19, No. 2, pp185-198, April 2010. (3.5)
18. Vaziri, Pantea; Davidson, Rachel A.; Nozick, Linda K. and Hosseini, M., Resource Allocation for Regional Earthquake Risk Mitigation: A Case Study of Tehran, Iran, **International Journal of Natural Hazards**, Vol. 53, pp527-546, 2010. (1.5)
19. Izadkhah, Y. O. and Hosseini, M., Sustainable Neighbourhood Earthquake Emergency Planning in Megacities, to appear in *International Journal of Disaster Prevention and Management*, Volume 19, Number 3, pp345-357, 2010. (1.5)
20. Hosseini, M. and Majd, Mahmood, Developing Fragility Curves for Regular Steel Buildings Having X-Bracing by Using Nonlinear Dynamic Analysis (in Persian), Sharif (the Scientific Journal of Sharif University of Technology), Vol. 27, No. 1, April-May 2011. (4)
21. Hosseini, M. and Majd, Mahmood, The Effect of X-Bracing Placement in the Seismic Behavior of Regular Steel Buildings Based on Fragility Concepts (in Persian), Sharif (the Scientific Journal of Sharif University of Technology), Vol. 27, No. 1, April-May 2011. (4)
22. Haddad Shargh, Farzan and Hosseini, M., An Optimal Distribution of Stiffness over the Height of Shear Buildings to Minimize the Seismic Input Energy, *International Journal of Seismology and Earthquake Engineering (JSEE)*, Vol. 12, No. 4, winter 2011. (2.5)
23. Khalvati, Amirhossein, Hosseini, M. and Mohammadpour, Saman, Seismic Behavior of 63kV and 132kV Substation Post Insulators with Flexible Conductors - an Experimental Approach, *International Journal of Seismology and Earthquake Engineering (JSEE)*, Vol. 13, No. 2, pp77-92, 2011. (2.5)
24. Hosseini, M. and Soroor A., Using Orthogonal Pairs of Rollers on Concave Beds (OPRCB) as a Base Isolation System – Part (I): Analytical, Experimental and Numerical Studies of OPRCB Isolators, *Journal of Structural Design of Tall and Special Buildings*, Vol. 20, Issue 8, pages 928–950, December 2011 [First published online in 08 March 2010]. (5)
25. Razzaghi M.S., Rahmani, N. and Hosseini, M., Buckling of Cylindrical Shells with Random Imperfections Due to the Global Shear, *Journal of Structural Engineering and Geotechnics*, Vol. 1, No. 2, 2012. (1.5)
26. Hosseini, M. and Noroozinejad Farsangi, Ehsan, Telescopic Columns as a New Base Isolation System for Vibration Control of High-rise Buildings, *International Journal of Earthquakes and Structures*, Vol. 3, No. 3, Dec. 2012. (3.5)
27. Hosseini, M. and Soroor A., Using Orthogonal Pairs of Rollers on Concave Beds (OPRCB) as a Base Isolation System – Part (II): Application to Multi-Story and Tall Buildings, *Journal of Structural Design of Tall and Special Buildings*, Vol. 22, Issue 2, pages 192–216, Feb. 2013 [First published online in 28 December 2010]. (5)
28. Tahamouli Roudsari, Mehrzad and Hosseini, M., On the Relation between Rigorous and Simplified Models for the Dynamic Response Analysis of Multi-component and Multi-support Excitations, *Journal of Earthquake Spectra (EERI)*, Vol. 29, Issue 2, pp. 527-546, May 2013. (2.5)

29. Ranjbaran, Fariman and **Hosseini, M.** and Soltani, Masoud, Simplified Formulation for Modeling the Nonlinear Behavior of Confined Masonry Walls in Seismic Analysis, *International Journal of Architectural Heritage*, (to appear). (2)
30. Ebadi Tabrizi, Babak and **Hosseini, M.**, Creating relation between bolt arrangements at bolted moment connections among cold-formed steel members using artificial neural network, *International Journal of Advanced Structural Engineering*, [first published online in 7 November 2012]. (3)
31. Poursamad Bonab, A., Hosseini Hashemi, B. and Hosseini, M., Experimental evaluation of the elastic buckling and compressive capacity of laced columns, *Journal of Constructional Steel Research*, 86, 66-73, 2013. (2)
32. Hosseini, M., Vosoughifar Hamidreza and Farshadmanesh, Pegah, Simplified Dynamic Analysis of Sloshing in Rectangular Tanks Using Multiple Vertical Baffles, **Journal of Water Sciences Research**, Volume 5, Issue 1, Spring 2013. (3)
33. Varsei, M., Shaikhzadeh Najar, S., **Hosseini, M.**, and Seyed Razzaghi, M., Bending properties of fine-grained concrete composite beams reinforced with single-layer carbon polypropylene woven fabrics with different weave designs and thread densities, *Journal of The Textile Institute* [Published online: 29 Apr. 2013], Taylor & Francis, UK. (1)
34. **Hosseini, M.** and Emamjome, H., Entropy-Based Serviceability Assessment of Water Distribution Networks Subjected to Natural and Man-Made Hazards, to appear in the **International Journal of Engineering**, 2014. (4.5)
35. Pouraminian, Majid and **Hosseini, M.**, Seismic Safety Evaluation of Tabriz Historical Citadel Using Finite Element and Simplified Kinematic Limit Analyses, *Indian Journal of Science and Technology*, Vol. 7, Issue 4, pp409-417, April 2014. (2)
36. Hosseini, M. and Tahamouli Roudsari, Mehrzad, Minimum Effective Length and Modified Criteria for Damage Evaluation of Continuous Buried Straight Steel Pipelines Subjected to Seismic Waves, *Journal of Pipeline Systems Engineering and Practice (ASCE)* (to appear), 2014. (5)
37. Ranjbaran, Fariman and **Hosseini, M.**, Seismic Vulnerability Assessment of Confined Masonry Wall Buildings, **Journal of Earthquakes and Structures**, Vol.7, No. 2, pp201-216, September 2014. (2)
38. Hosseini, M. and Alavi, Seyed Sasan, A Kind of Repairable Steel Buildings for Seismic Regions Based on Building's Rocking Motion and Energy Dissipation at Base Level, *International Journal of Civil and Structural Engineering (IJCSE)*, Vol. 1, Issue 3, pp157-163, September 2014. (3)
39. Hosseini, M. and Legzian, Gh., Derivation of stiffness and mass matrices of torsional buildings in fully irregular state, submitted to ???????
40. Hosseini, M., and Mirzaee, R., A Study on the Use of Earthquake Input Energy and a Criteria for Optimum Design of Buildings, submitted to ???????

**Other Journal and Magazine Papers (oldest first):**

1. Hosseini, M., Lifelines and Their Conditions in City of Tehran, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, May 1996.
2. Hosseini, M. and Heravi, Gh., A Study on the Water Supply System Subjected to Earthquake, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 0, No. 4, winter 1997.
3. Hosseini, M. and Yaghoobi-e-Vayeghan, F., A Study on Earthquake Influence Factors in Building Structures, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 1, No. 4, winter 1998.

4. Hosseini, M. and Mogharian, M., A Study on an Existing Buried Water Pipeline Subjected to Wave Propagation, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 2, No. 1, spring 1999.
  5. Hosseini, M. and Yaghoobi-e-Vayeghan, F., A More Precise Insight into the Concept and Definitions of the “Mass Participation Factor” in Seismic Analysis of Structures, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 2, No. 3, fall 1999.
  6. Hosseini, M. and Ghazaii, A., A Study on the Seismic Design Codes for Liquid Storage Tanks by Dynamic Response Analyses, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 3, No. 4, winter 2000.
  7. Fadaeian, R., Hosseini, M. and Ghafory-Ashtianty, M., Increasing the Precision of Wilson and Newmark Direct Numerical Integration Methods by Using the Residual Load Vector Technique, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 3, No. 4, winter 2000.
  8. Khanlari, K., Ghafory-Ahtiany, M. and Hosseini, M., A New Approach for Calculation of Dynamic Characteristics of Non-classically Damped System, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 4, Nos. 2 & 3, summer & fall 2001.
  9. Hosseini Hashemi, B., Hosseini, M., and Khanlari, K., P-delta Effect in the Dynamic Analysis of Structures, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 5, No. 4, winter 2002.
  10. Jabbarzadeh, M. J., Hosseini, M., and Ziyaeifar, M., Use of Dynamic Stiffness Matrix in Dynamic Analysis and Verification of Strain Rates Distribution in Frames, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 5, No. 4, winter 2002.
  11. Hosseini Hashemi, B., Hosseini, M., and Ghasemi Hamzekalaili, H., A Study on the Seismic Behavior of Compound Steel Columns with Horizontal Ties, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 6, No. 1, spring 2003.
  12. Entessarian, F. and Hosseini, M., Looking at Earthquake from a Systemic Viewpoint (in Persian), *Quality and Management Quarterly*, winter 2004.
  13. Alemi, F. and Hosseini, M., A Study on the Codes’ Recommendations for Seismic Design of Secondary Systems, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 7, No. 4, winter 2004.
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14. Hosseini, M., Behavior of Electrical and Mechanical Equipment in Buildings Subjected to Earthquakes, *Arab Construction World*, Volume 24, No. 1, pages 12-16, January 2006.
  15. Hosseini, M., The Role of Urban Planning and Design in Lifeline-Related Seismic Risk Reduction (in Persian), *Danesh Nama (Technical-Professional Monthly Magazine of Engineering Association of Isfahan Province)*, Special Issue on Retrofitting, Vol. 15, No. 137 and 138, September 2006.
  16. Pourshahid, E., Hosseini M., The Importance of Seismic Retrofit of Mechanical and Electrical Facilities of Buildings and the Role of Structural Engineers in this Regard (in Persian), *Danesh Nama (Technical-Professional Monthly Magazine of Engineering Association of Isfahan Province)*, Special Issue on Retrofitting, Vol. 15, No. 137 and 138, September 2006.
  17. Khabbaz Tamimi, M., Omidvar, B., and Hosseini M., A Study on the Vulnerability of Water Supply Systems Based on HAZUS-SR2 Methodology (in Persian), *Danesh Nama (Technical-Professional Monthly Magazine of Engineering Association of Isfahan Province)*, Special Issue on Retrofitting, Vol. 15, No. 137 and 138, September 2006.
  18. Hosseini M., Problems of Tehran Metropolis from Urban Planning and Design Point of View and Some Resolving Solutions, *Pejouheshnameh (The Persian Journal and Bulletin of IIEES)*, Vol. 10, No. 1, winter 2007.

19. Hosseini M., On the Effect of Urban Features on Human Casualty Level in Large and Populated Cities, Asian Disaster Management News, adpc, Vol. 13, No. 2, May - August 2007.
20. Hosseini, M., Sustainable City against Earthquake, Zaminlarzeh (Bulletin of the Iranian Association on Earthquake Engineering - IAEE), 2008.
21. Hosseini, M. and Amirhossein Soroor, Introducing Orthogonal Pairs of Rollers on Concave Beds with Circular Curvature as a Seismic Isolator: Numerical and Experimental Investigations, Pejouheshnameh (The Persian Journal and Bulletin of IIEES), 2010.
22. Yousefi, S. and Hosseini, M., Seismic Upgrading of Masonry Buildings by Roof Isolation, Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 41, January 2009.
23. Malek, Masoud and Hosseini, M., The Effect of Viscous Dampers Arrangement Pattern on Reduction of Seismic Input Energy to Moment Frame Steel Buildings, Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 41, January 2009.
24. Yousefi, S. and Hosseini, M., Seismic Upgrading of Masonry Buildings by Roof Isolation (in Persian), Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 41, January 2009.
25. Hosseini, M. and Karimiyan, Somayyeh, Seismic Reliability Evaluation of the Jacket Structure of an Offshore Platform Based on Nonlinear Time History Analyses, Journal of Water Sciences Research, Volume 2, Issue 1, 23 September 2009.
26. Ghadimi, K. and Hosseini, M., Proposing a Type of Yielding Bracing Element with Similar Behaviors in Tension and Compression, (in Persian), Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 44, Oct. 2010.
27. Hosseini, M., Momeni, M. and Ghanbari, Mostafa, Joint Effects of Earthquake Horizontal and Vertical Components and Angle of Incidence on Columns Axial Forces and Story Shear in Regular Steel Moment Frames Buildings (in Persian), Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. ????????
28. Firoozbakht, M., Vosughifar, H. R. and Hosseini, M., A Comparative Study on the Rapid Seismic Evaluation Techniques for Existing Buildings in the Guidelines of USA, Canada, India and Iran (in Persian), Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 43, 2010.
29. Hosseini, M., Raoofi, Amir and Soroor, Amirhossein, A Seismic Risk Management Model of Electric Power Distribution Network in Large Cities by Concentration on Low-Voltage Substations, Pejouheshnameh (The Persian Journal and Bulletin of IIEES), Vol. 13, No. 2 & 3, Spring & Summer 2010.
30. Taheri, Abbas, Hosseini, M. and Akbarpour, Abbas, A Study on the Steel Buildings with Moment Frames Having Stiffness and Mass Irregularities in Height Subjected to Near-Fault Earthquakes, Pejouheshnameh (The Persian Journal and Bulletin of IIEES), Vol. 13, No. 2 & 3, Spring & Summer 2010.
31. Pir Ata, Peyman, Hosseini, M. and Ostovar Izadkhah, Yasamin, Increasing the Resilience of Building Industry and its Role in Upgrading the Quality of Sheltering Management in Earthquake Disaster (in Persian), Bana (The Technical Journal of the Iranian Society of Civil Engineers - ISCE), No. 54, 2013.
32. **Hosseini, M.** and Parsa, Elham, Seismic Passive Control of Buildings by Using a Damper with Large Mass at Base Level and Connected to the Building's Roof, Pejouheshnameh (The Persian Journal and Bulletin of IIEES), Vol. 17, No. 2, Summer 2014.

**Books, Book Chapters, Proceedings, and Monographs (oldest first):**

1. Guidelines for the Seismic Design of Oil and Gas Pipelines (translation and modification), IIEES publications, by **Hosseini, M.**, Tiv, M., 1997.
2. Proceedings of the First National Conference on Lifeline Earthquake Engineering, IIEES publications, by **Hosseini, M.**, Hassani, N., 1998.
3. Seismic Design Guide for Gas Transmission and Distribution Systems, by **Hosseini, M.**, IIEES, August 2001.
4. Guidelines for Seismic Evaluation of Existing Buildings (Chapter 9: Nonstructural Elements), by **Hosseini, M.**, IIEES and MPO, September 2001. [A Set of 3 Volumes including: The Guidelines, The Commentary, and The Technical Constructional Details]  
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5. Guidelines for Quick Seismic Assessment of Existing Buildings (Section 4.8: Nonstructural Elements), by **Hosseini, M.**, IIEES and MPO, September 2006.
6. Using Songs as Educational Tools for Teaching Disaster Issues to Preschoolers, by Izadkhah, Y. O. and **Hosseini, M.**, in “Rebuilding Sustainable Communities for Children and Their Families after Disasters: A Global Survey”, Adenrele Awotona (editor), Cambridge Scholars Publishing, Boston, MA, USA, January 2010. (1.5)
7. Earthquake Design and Retrofit of Nonstructural Elements (under preparation)
8. Earthquake Considerations in Architectural and Urban Design (under preparation)
9. Structural Analysis, Theory and Practice, (under preparation)
10. Application of Structural Dynamics in Seismic Analysis of Structures, (under preparation)
11. Lifeline Earthquake Engineering, (under preparation)
12. Seismic Analysis and Design of Liquid Storage Tanks, (under preparation)

**Research and Technical Reports (oldest first) (all in Persian):**

1. Seismic Vulnerability Analysis of an Existing Multi-span Slab Bridge Subjected to Horizontal and Vertical Ground Motions, Report No. 77-98-2, by **M. Hosseini** and Sh. Tavousi Tafreshi, IIEES, winter 1997.
2. Deterministic Seismic Hazard Analysis of Montazer-Ghaem Power Plant with Emphasis on Morphotectonic and Neotectonic Approaches, by Sh. Solaymani and **M. Hosseini**, Report No. 77-98-8, IIEES, spring 1998.
3. Earthquake Engineering for Large Gravity Dams – Fundamental Issues, Report No. 77-99-15, by K. Mirza and **M. Hosseini**, IIEES, 1999.
4. Vulnerability Assessment of Electric Power Generation and Distribution System in Iran, by **M. Hosseini** and M. Hatami, IIEES, 2000.  
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5. Seismic Vulnerability Assessment of Tehran Highway Bridges, National Research Project Report, by **M. Hosseini** et al, 2001.
6. Analytical Study of a Selected Part of Urban Wastewater Network Subjected to Seismic Waves, by **M. Hosseini** and H. Ajideh, IIEES, 2002.
7. Behavior of Nonstructural Elements of Buildings in Bam Earthquake of December 2003, by **M. Hosseini** and M. J. Jabbarzadeh, IIEES, 2005.
8. Urban Planning and Design Regulations for Upgrading the Seismic Safety of Tehran and Policies and Guidelines for Modifying Tehran Master Plan, by M. K. Jafari, K. Amini Hosseini, **M. Hosseini**, M. Kamalian, F. Askari, A. Razmkhah , M. Davoodi, M. Mahdaviifar, A. Sohrabi Bidar, and M. Keshavarz Bakhshayesh, IIEES, 2005.



9. Using Orthogonal Rollers Pairs as an Isolating System for Buildings, by **M. Hosseini**, A. Soroor and K. Kangarloo, IIEES, 2009.
10. Experimental Study on the Effect of Braced Bays Location in the Ultimate Behavior of X-Braced Frames, by **M. Hosseini**, Gholamreza Heravi, Alireza Farshchi and Peyman Shadman Heidari, IIEES, 2010.
11. Self-aid Neighborhood, Yasamin O. Izadkhah, and **M. Hosseini**, IIEES, 2010.

**Conference Papers (oldest first):**

1. **Hosseini** , **M.** and Ghafory-Ashtiany M., The Importance of Earthquake Nonstationarity in the Response of Linear SDOF Systems, Proceedings of the 10<sup>th</sup> International Conference on Structural Mechanics in Reactor Technology (SMiRT 10), Anaheim, USA, August 1989.
2. **Hosseini**, **M.**, and Ghafory-Ashtiany, M., The Effect of Earthquake Nonstationarity in the Response of Nonlinear SDOF Systems (in Persian), Proceedings of the 3<sup>rd</sup> International Congress on Civil Engineering, Shiraz, Iran, May 1990.
3. Ghafory-Ashtiany, M. and **Hosseini**, **M.**, The Stochastic Response of Nonlinear SDOF systems to Nonstationary Earthquake Excitations, Proceedings of the 9<sup>th</sup> Symposium on Earthquake Engineering, Roorkee, India, December 1990.
4. **Hosseini**, **M.**, and Ghafory-Ashtiany, M., Seismic Response of Hysteretic SDOF Systems to Non-stationary Earthquake Excitations (in Persian), Proceedings of the 1<sup>st</sup> International Conference on Seismology and Earthquake Engineering (SEE-1), Tehran, Iran, May 1991.
5. Ghafory-Ashtiany, M. and **Hosseini**, **M.**, The Stochastic Response of Nonlinear Systems to Non-stationary Earthquake Excitations, Proceedings of the 4<sup>th</sup> International Conference on Recent Advances in Structural Dynamics, Southampton, UK, July 1991.
6. **Hosseini**, **M.**, and Ghafory-Ashtiany, M., A New Nonlinear Hysteretic Model and a New Time History Analysis Method, Proceedings of the 11<sup>th</sup> International Conference on Structural Mechanics in Reactor Technology (SMiRT 11), Tokyo, Japan, August 1991.
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**PRESENTATIONS AT SHORT COURSES, SEMINARS AND WORKSHOPS (most recent first):**

- Seismic Vulnerability of Lifelines and Industrial Facilities (in Persian), Presented in a Short Course, Entitled “Principles of Disaster Risk Management”, held by IIEES in 1-5 December 2007.
- Upgrading Preparedness against Earthquake Crisis, (in Persian), Presented in a Short Course, Entitled “Principles of Disaster Risk Management”, held by IIEES in 1-5 December 2007.
- Hosseini, M., Health Care Centers and Disaster Mitigation: Architectural, Structural, and Emergency Management Issues, International Conference on Earthquake Engineering: Earthquake Engineering in 21st Century to Mark 40 Years of IZISS – Skopje, Macedonia, 27 August-1 September 2005.
- Seismic Risk and the Role of Health Sector in Its Reduction, Presented in the 9<sup>th</sup> Monthly Seminar of “Professional Group for Health in Disasters, Tehran University, April 2006.
- Disaster Risk Management in Megacities with Special Attention to Developing Countries, 1<sup>st</sup> Conference in Crisis Management, Bahrain, June 2005.

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- Seismic Evaluation of Nonstructural Elements of Buildings, Short Courses held by the Management and Planning Organization of Iran and Iranian Earthquake Engineering Association, 2003-. (several times a year)
- The Role of Urban Planning and Design in Seismic Risk Mitigation, Seminar presented at Department of Architecture, School of Architecture and Applied Arts, Cornell University, USA, April 2002.
- Earthquake Considerations in Architectural and Urban Design, Presented in School of Architecture, University of Illinois at Urbana-Champaign, USA, March 2002.
- Seismology and Earthquake Engineering Research in Iran, Seminar presented at School of Civil and Environmental Engineering, Cornell University, USA, September 2001.
- Seismic Behavior of Structures and Principles of Dynamic Analysis of Structures, Short Course held by IIEES for consulting engineers, 2000.

**PROFESSIONAL EXPERIENCE:**

**Research (most recent first):**

- Seismic Risk Mitigation and Earthquake Disaster Management Studies for Developing Countries, IIEES, 1999-.
- Seismic Vulnerability Analysis of Oil and gas Pipeline Systems of Iran, IIEES, 1998-.
- Seismic Vulnerability Analysis of Water Supply and Waste Water Systems of Iran, IIEES, 1998-.
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- Seismic Risk Analysis of Electric Power Generation and Transmission Systems in Tehran, IIEES, 1997-.
- Seismic Vulnerability Assessment of Highway Bridges by Three-dimensional Nonlinear Dynamic Analyses and Considering the Multi-component Earthquake Excitations, 1997-.

- Design Code for Bridges, IIEES and Bureau of Study and Research, Ministry of Roads and Transportation, 1996-.
- Seismic Analysis and Design of Oil and Gas Pipelines, IIEES, 1994-.
- Aseismic Analysis and Design of Building Systems and Special Structures, IAU and IIEES, 1992-.
- Tehran Seismic Vulnerability Analysis, Structural and Lifeline Systems (preliminary studies), IIEES, 1991-1993.

**Teaching (most recent first):**

1. Theory of Elasticity and Plasticity, M.Sc. Program in Structural Engineering, Dubai Branch of the **IAU**, September 2014-.
2. Finite Element Method, M.Sc. Program in Structural Engineering, Dubai Branch of the **IAU**, September 2014-.
3. Modern Structures, Ph.D. Program in Architecture, Dubai Branch of the **IAU**, February 2014-.
4. Advanced Design of Concrete Structures, M.Sc. Program in Structural Engineering, Dubai Branch of the **IAU**, February 2014-.
5. Advanced Design of Steel Structures, M.Sc. Program in Structural Engineering, Dubai Branch of the **IAU**, February 2014-.
6. Construction Techniques, Graduate Program in Architecture, North Tehran Branch of the Islamic Azad University (**IAU**), February 2013-February 2014.
7. Modern Structures, Graduate Program in Architecture, North Tehran Branch of the **IAU**, February 2012-February 2013.
8. Fundamentals of Earthquake Engineering in Architecture, Graduate Program in Architecture Technology, School of Architecture, **University of Tehran**, 2006-. (every other semester)
9. Lifeline Earthquake Engineering, Graduate Program in Earthquake Engineering, Civil Engineering Department, School of Engineering, **University of Tehran**, 2005.
10. Seismic Vulnerability Analysis, Graduate Program in Engineering Management of Disasters, School of Environmental Engineering, **University of Tehran**, 2005.
11. Urban Facilities in Disasters, Graduate Program in Engineering Management of Disasters, School of Environmental Engineering, **University of Tehran**, 2004-2005.
12. Modern Structures, Doctorate Program in Architecture, Science and Research Branch of the **IAU**, 2003-2007. (every other semester)
13. Structural Concepts, School of Architecture, College of Architecture and Urban Design, **Cornell University**, USA, 2002.
14. Earthquake Considerations in Architectural and Urban Design, Graduate Program, College of Architecture and Urban Design, **Cornell University**, USA, 2002.
15. Finite Element Method, Graduate Program in Structural Engineering, South Tehran Branch of the **IAU**, 1999-.
16. Matrix Structural Analysis, Graduate Program in Structural Engineering, **Shahid Rajaii University**, 1998.
17. Advanced Structural Dynamics, Graduate, **IIEES** and Science and Research Branch of the **IAU**, 1997-.
18. Advanced Engineering Mathematics, Graduate Program in Structural Engineering, South Tehran Branch of the **IAU**, 1992-1993.

19. Earthquake Engineering, Graduate, Program in Structural Engineering, South Tehran Branch of the **IAU**, 1992-.
20. Dynamics of Structures, Graduate Program in Structural Engineering, South Tehran Branch of the **IAU** (1992-), **IIEES** (1996-), and **Shahid Rajaii University** (1998).
21. Statics, Undergraduate, **IAU**, 1994-1996.
22. Earthquake Engineering, Undergraduate, Central Tehran Branch of the **IAU**, 1991-1996.
23. Dynamics of Structures, Undergraduate, Central Tehran Branch of the **IAU**, 1991-1994.
24. Structural Analysis II, Undergraduate, Central Tehran Branch of the **IAU**, 1991-1996.
25. Structural Analysis I, Undergraduate, Central Tehran Branch of the **IAU**, 1991-1996.

**Professional Engineering Works (oldest first):**

- Civil and Structural Design, Andiss Consulting Engineers, 1985-88:
  - Design of Borujen fish farm, including water supply facilities, r/c canals and pools, warehouses, residential building, access road, and other related structures.
  - Design of Shahid Beheshti Education Center Building, with r/c space frames and having a total area of 1000 m<sup>2</sup> approximately.
  - Design of Kalardasht fish farm, including intake, r/c canals and pools, warehouses, laboratory building, residential building, access road, and other related structures.
  - Design of several multi-story residential buildings, with steel or r/c structures.
- Structural Drawings Inspection and Design Review and Modification, Engineering Office of Iranian Fisheries Corporation, 1988-1991:
  - Marvdasht fish farm,
  - Bandar Abbas quay,
  - Yasooj fish farm,
  - Shahid Rajaii Port breakwater,
  - Agh-Ghala fish farm,
- Consultancy on various ‘Seismic Retrofit Projects’ in Tehran Shaloodeh Consulting Engineers with regard to:
  - Shahid Chamran Hospital
  - College of Literature, University of Tehran
  - Faculty of Electrical Eng., Sharif University of Tehnology
  - Third Tower of Esteghlal Hotel
  - Design check of the East Trans-country Gas Line (of Iran) crossing the Miamey seismic fault in Pars Consulting Engineers
- Supervision of various ‘Seismic Retrofit Projects’ in Behsazeh Andishan Arya Consulting Firm, and also IIEES with regard to:
  - Shiraz, Bojnood, and Tabriz Petrochemical Plants
  - Ministry of Agriculture
  - Organization of Development and Renovation of Schools (of Iran), in various provinces, including Khorasan Razavi and Northern Khorasan, Golestan, Mazandaran, Gilan, West Azerbaijan, Kohgilooyeh and Boirahmad, Tehran and Semnan
  - Ministry of Science, Research and Technology (various university buildings)

**Administration (oldest first):**

- Head of the Lifeline Earthquake Engineering Department, International Institute of Earthquake Engineering and Seismology (IIEES), December 1991 -.

- Head of the Hydraulic Structures Group, Civil Engineering Dept., Graduate School, Tehran South Branch of the Islamic Azad University (IAU), December 1996 - June 2001.
- Director of Graduate Program, IIEES, July 1996 - October 1998.
- Director of Structural Engineering Research Center, International Institute of Earthquake Engineering and Seismology (IIEES), September 2002 - July 2004.
- Project Manager, Sub-regional Initiative for Disaster Risk Management in Southwest and Central Asia, A Regional Program at UNDP (Iran Office), July 2004 - February 2005.
- Vice-President of Planning and Development, International Institute of Earthquake Engineering and Seismology (IIEES), February 2005 – March 2007.
- Vice-President of Research, International Institute of Earthquake Engineering and Seismology (IIEES), March 2007 – September 2007.

### **PAST ACADEMIC OCCUPATIONS (oldest first):**

- Assistant Professor in Civil Engineering Department, School of Engineering, Central Tehran Branch of the Islamic Azad University (IAU), December 1991 – March 1996.
- Part-time Faculty Member at Structural Engineering Research Center, International Institute of Earthquake Engineering and Seismology (IIEES), December 1991 – March 1996.
- Assistant Professor at Structural Engineering Research Center, International Institute of Earthquake Engineering and Seismology (IIEES), March 1996 – December 2004.

### **RESEARCH INTERESTS:**

- Repairable structures, including buildings which can be usable again, even after major earthquakes and other extreme events
- Structural dynamics, especially seismic response analysis of nonlinear systems by both deterministic and stochastic approaches.
- Aseismic analysis and design of building systems, including steel, r/c and masonry
- Lifeline earthquake engineering, including the seismic design as well as seismic evaluation and retrofit of various lifeline systems subjected to different earthquake hazards like ground shaking, landslide, fault displacement, liquefaction, and tsunamis.
- Aseismic analysis and design of special structures such as bridges, towers, dams, tanks and reservoirs, waterfront structures and also industrial facilities.
- Urban planning and architectural and urban design in earthquake prone areas
- Risk mitigation and disaster management
- Vibration isolation and absorption

### **TEACHING INTERESTS:**

- Dynamics of Structures (Basic and Advanced), with emphasis on problems in simplified models and quick dynamic analysis
- Structural Mechanics and Analysis (including Basic, Matrix and Finite Element Analyses), with emphasis on the basic concepts of structural behavior

- Earthquake Engineering (including Lifeline Earthquake Engineering and Infrastructures), with emphasis on seismic response analysis and fundamentals of reliable seismic design, particularly innovative design for creating “repairable buildings”, and disaster avoiding design
- Statics, with emphasis on the physical facts based on which “engineering knowledge” is established
- Natural Hazards Considerations in Architectural and Urban Design, with emphasis on Flexible and Multi-purpose Architecture

**MEMBERSHIPS (oldest first):**

- Iranian Society of Structural Design Engineers, 1992-.
- Iranian Society of Civil Engineers (ISCE), 1994-, (Head of Structure and Earthquake Committee since 1997, and Vice-President since 2011).
- Center for Nuclear Power Plant Structures, Equipment and Piping, North Carolina State University, 1994-1998.
- Iranian Earthquake Engineering Association (IEEA), 1995-, (Head of Membership Committee during 1999 – 2001 and Vice-President during 2006-2008).
- International Center for Disaster Mitigation Engineering (INCEDE), 1995-2000.
- Iranian Society of Structural Engineers (ISSE), 1995-.

**PERSONAL:**

- Born on Dec. 22, 1960 – Excellent Health (Thanks God),  
Height: 183 cm (6 ft),  
Weight: 90.6 kg (200 lbs)
- Married with children: one daughter born in July 1994 and two sons (twins) born in March 1997
- Interested in poetry, traveling, and some sports (volleyball)