

CURRICULUM VITAE

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Mahmood HOSSEINI



Visiting Niagara during the 9th US National & the 10th Canadian Conf. on Earthq. Eng.

Present Occupation(s):

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, E-mail: hosseini@iiees.ac.ir, Website: www.iiees.ac.ir

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

Address: Aahang Expressway, Tehran, Iran, Tel: +98 21 33722831-7 Ext. 3256

EDUCATION:

B.Sc. in Civil Engineering, Civil Engineering Department, School of Engineering, Tehran University, 1985

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

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

Ph.D. in Structural Dynamics 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

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

SPECIAL TRAININGS AND VISITS (most recent first):

- Study on Seismic Upgrading of Gas and Water Systems, Sabbatical Leave Study and Research Work, School of Civil and Environmental Engineering, **Cornell University, USA**, July 2001-July 2002.
- 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**, November 1990.
- A 45-day Scientific and Technical Visit to **Japan**, in 1989, including Earthquake Engineering Research Center of Tokyo University, Institute of Industrial Science (IIS), Chiba Experimental Station, 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 on my Ph.D. Dissertation.

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.

PUBLICATIONS:

Peer-reviewed Journal Papers (oldest first):

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. Havaii, 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., Gharory-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. **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)
 16. 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)
 17. Vaziri, Pantea; Davidson, Rachel A.; Nozick, Linda K. and **Hosseini, M.**, Resource Allocation for Regional Earthquake Risk Mitigation: A Case Study of Tehran, Iran, to appear in **International Journal of Natural Hazards**, Vol. 53, No. ?, pp527-546, 2010. (1.5)

18. 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, 2010, pp345-357. (1.5)
19. 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)
20. Izadkhah, Y. O. and Hosseini, M., Using Songs as Educational Tools for Teaching Disaster Issues to Preschoolers, in “Rebuilding Sustainable Communities for Children and Their Families after Disasters: A Global Survey”, Adenrele Awotona (editor), Cambridge Scholars Publishing, January 2010, Boston, MA, USA. (1.5)
21. **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, the **Journal of Structural Design of Tall and Special Buildings**, Vol. ?, No. ? pp??, 20??. [Published online in 08 March 2010] (5)
22. **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, submitted to the **Journal Structural Design of Tall and Special Buildings**, Vol. ?, No. ?, pp???-???, 20??. (5)
23. Ranjbaran, Fariman and **Hosseini, M.**, Simplified Formulation for Modeling the Nonlinear Behavior of Confined Masonry Walls in Seismic Analysis, **International Journal of Architectural Heritage**, (to appear). (2)
24. Hosseini, M. and Majd, M., Developing Fragility Curves for Regular Steel Buildings Having X-Bracing by Using Nonlinear Dynamic Analysis (in Persian), Shareef (the Scientific Journal of Shareef University of Technology), (to appear). (4)
25. **Hosseini, M.** and Tahamouli Roudsari, Mehrzad, On the Relation between Multi-Component and Multi-Support Excitation Analyses of Structures and the Required Conditions for Simplification of Multi-Support Excitation Analysis, submitted to **Journal of Earthquake Engineering and Structural Dynamics**.
26. **Hosseini, M.** and Karimiyan, S., Seismic Reliability Assessment of Offshore Structures by Using Nonlinear Time History Analyses, submitted to ??????
27. **Hosseini, M.** and Legzian, Gh., Derivation of stiffness and mass matrices of torsional buildings in fully irregular state, submitted to ????????
28. **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 Ghafoory-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., Ghafoory-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 Hamzekalaei, 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), 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), 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), 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 (Persian Bulletin of the Iranian Association on Earthquake Engineering - IAEEA), 2008.
 21. **Hosseini, M.**, Momeni, M. and Ghanbari, Mostafa, Bana

22. **Firoozbakht**, ???, Kalantari, Afshin and Hosseini, M., Bana
23. **Hosseini, M.**, and Malek, Bana
24. **Hosseini, M.** and Heidari, Bana
25. **Hosseini, M.**, Amirhossein Bayat and Amirhossein Soroor, Pejouheshnameh
26. **Hosseini, M.** and Amirhossein Soroor,
27. **Hosseini, M.**, Amirhossein Bayat and Amirhossein Soroor, Pejouheshnameh

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 10th 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 3rd 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 9th 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 1st 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 4th 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 11th International Conference on Structural Mechanics in Reactor Technology (SMiRT 11), Tokyo, Japan, August 1991.
7. **Hosseini, M.**, and Ghafory-Ashtiany, M., A Method for Prediction of Hysteretic Response to Earthquake Excitations, Proceedings of the 10th World Conference on Earthquake Engineering, Madrid, Spain, July 1992.
8. Ghafory-Ashtiany, M. and **Hosseini, M.**, Jafari, M. K., Eshghi, S., Qureishi, M., and Shaditalab, J., Tehran Vulnerability Analysis, Proceedings of the 10th World Conference on Earthquake Engineering, Madrid, Spain, July 1992.
9. Nateghi-Alahi, F. and **Hosseini, M.**, Evaluation of Buildings for Potential Seismic Hazards Using Inspection Techniques (in Persian), Proceedings of the 1st International Conference on Natural Disasters in Urban Areas, Tehran, Iran, May 1992.
10. **Hosseini, M.**, and Ghafory-Ashtiany, M., An Iterative Method for Modal Response Analysis of Nonlinear Systems, Proceedings of the 12th International Conference on Structural Mechanics in Reactor Technology (SMiRT 12), Stuttgart, Germany, August 1993.
11. **Hosseini, M.**, A Simplified Method for Analysis of Building Frames Subjected to Lateral Loads, Proceedings of the 2nd International Conference on Seismology and Earthquake Engineering (SEE-2), Tehran, Iran, May 1995.
12. Mehrzad, A. and **Hosseini, M.**, Seismic Safety Measures for Harbor Activities (in Persian), Proceedings of the 2nd International Conference on Seismology and Earthquake Engineering (SEE-2), Tehran, Iran, May 1995.

13. Zand-e-Parsa, K. and **Hosseini, M.**, The Effect of Joint Rotations on the Natural Period of Building Frames, Proceedings of the 2nd International Conference on Seismology and Earthquake Engineering (SEE-2), Tehran, Iran, May 1995.
14. Ansari, F. and **Hosseini, M.**, A Comparative Study of the Proposed Iranian Code with American Codes for Seismic Design of Bridges, (in Persian), Proceedings of the 2nd International Conference on Seismology and Earthquake Engineering (SEE-2), Tehran, Iran, May 1995.
15. **Hosseini, M.** and Alyasin, S., Deliberate Directing of Damage in Lifeline Systems Subjected to Earthquakes, Proceedings of the Hazard-96 Symposium, Toronto, Canada, July 1996.
16. **Hosseini, M.** and Vafaii-e-Noodeh, V., Seismic Vulnerability Assessment of Lar Earth Dam, Proceedings of the 8th International Conference on Soil Dynamics and Earthquake Engineering (SDEE-97), Istanbul, Turkey, July 1997.
17. **Hosseini, M.** and Ansari, F., A FEM Algorithm for Analysis of Hysteretic Systems by Using N-Node Elements, Proceedings of the 14th International Conference on Structural Mechanics in Reactor Technology (SMiRT 14), Lyon, France, August 1997.
18. **Hosseini, M.** and Mirdamadi, H-R., The Effects of Earthquake Characteristics and Structure Properties in the Effectiveness of Passive Control Systems, Proceedings of the SMiRT-14 Post Conference Seminar, Pisa, Italy, August 1997.
19. **Hosseini, M.**, Lifeline Earthquake Engineering, Needs and Know-Hows (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
20. Soleimani, Sh., **Hosseini, M.**, and Zare, M., Seismic Hazard Assessment at MCE Level for the Site of Montazerghaem Power Plant (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
21. Nikzad, Kh., **Hosseini, M.**, Hatami, M., and Tavoosi-e-Tafreshi, Sh., Damages to Loshan Power Plant and its 230 kV Sub-Station Due to Manjil Earthquake and Related Numerical Studies (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
22. Mirza-Hessabi, A. and **Hosseini, M.**, Traffic Problems for the Emergency Response of Fire Departments in Tehran After the Probable Earthquake (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
23. Azmudeh, A. and **Hosseini, M.**, A Study on the Elephant Foot Phenomenon in Steel Liquid Storage Tanks Subjected to Earthquake (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
24. Visseh, Y. and **Hosseini, M.**, Urban Planning and Design Considering the Seismic Damages of Lifeline Systems (in Persian), Proceedings of the 1st National Conference on Lifeline Earthquake Engineering, Tehran, Iran, April 1998.
25. **Hosseini, M.** Effects of Recent Earthquakes on Lifelines and Lifeline Earthquake Engineering in , Proceedings of the 1st -Japan Workshop on Recent Earthquakes, Tehran, Iran, May 1998.
26. **Hosseini, M.** and Mofid, B., A Study on the Landslide Hazard for Tehran Highways, Proceedings of the Hazards-98 Symposium, Chania, GREECE, May 1998.
27. **Hosseini, M.** and Imagh-e-Naiini, M., A Quick Method for Estimating the Lateral Stiffness of Building Systems, Proceedings of the 6th US National Conference on Earthquake Engineering, Seattle, USA, May-June 1998.
28. **Hosseini, M.**, The Effects of Earthquake Directionality on the Seismic Response of Bridges to Multi-component Excitations, Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), Tehran, Iran, May 1999.

29. **Hosseini, M.** and Yaghoobi Vayeghan F., A New Modal Superposition Method in Computing Base and Story Shear for Designing Foundations and Diaphragms (in Persian), Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), Tehran, Iran, May 1999.
30. Nasser Assadi, K. and **Hosseini, M.**, A Study on the Ductility Factor of Common Steel Buildings (in Persian), Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), IIEES, Tehran, Iran, May 1999.
31. Motamedi, M. and **Hosseini, M.**, Using the Concept of Energy Dissipation and Distribution of Damage in Seismic Design of RC Buildings (in Persian), Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), IIEES, Tehran, Iran, May 1999.
32. Zolfaghari, A. and **Hosseini, M.**, A Suggested Seismic Design Spectrum for Southern Tehran (in Persian), Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), Tehran, Iran, May 1999.
33. Izadkhah, Y. O. and **Hosseini, M.**, Earthquake Prediction and the Necessity for Earthquake Protection Programs in, Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (SEE-3), Tehran, Iran, May 1999.
34. **Hosseini, M.** and Mohajer, M., Effects of Foundation Geometry on the Natural Periods of Tank-Liquid-Foundation Systems, Proceedings of the 9th International Conference on Soil Dynamics and Earthquake Engineering (SDEE-99), Bergen, NORWAY, August 1999.
35. **Hosseini, M.** and Mirza-Hessabi, A., Lifeline Interaction Effects on the Earthquake Emergency Response of Fire Departments in Tehran Metropolis, Proceedings of the 5th US Conference on Lifeline Earthquake Engineering, Seattle, USA, August 1999.
36. **Hosseini, M.** and Motamedi, M., A Study on the Distribution of Lateral Seismic Forces in the Height of R/C Buildings by Using Nonlinear Dynamic Analysis (in Persian), Proceedings of the 1st Conference of Iranian Society of Civil Engineers (ISCE), Tehran, Iran, October 1999.
37. Yaghoobi Vayeghan F. and **Hosseini M.**, Evaluating the Seismic Response of an Existing 8-Story Steel Building by Using Linear Dynamic Analysis (in Persian), Proceedings of the 1st Conference of Iranian Society of Civil Engineers (ISCE), Tehran, Iran, October 1999.
38. Azizi A., **Hosseini, M.** and Zare M., Developing the Elastic Design Spectra for Boushehr Region by Consideration of Site Effects (in Persian), Proceedings of the 1st Conference of Iranian Society of Civil Engineers (ISCE), Tehran, Iran, October 1999.
39. **Hosseini, M.** and Tavoozi Tafreshi, Sh., Seismic Response of a Multi-Span Highway R/C Bridge to Simultaneous Horizontal and Vertical Ground Motion, Proceedings of the 39th Scientific Week of Syria, Damascus, Syria, November 1999.
40. **Hosseini, M.** and Yaghoobi Vayeghan F., Design Verification of an Existing 8-Story Irregular Steel Building by 3-D Dynamic and Push-over Analyses, Proceedings of the 12th World Conference on Earthquake Engineering (12WCEE), New Zealand, January-February 2000.
41. Yaghoobi Vayeghan F. and **Hosseini M.**, Evaluating the Seismic Design of an Existing 8-Story Steel Building by Using Pushover Analysis (in Persian), Proceedings of the 5th International Congress in Civil Engineering, Mashhad, Iran, May 2000.
42. **Hosseini, M.** and Firoozi Nezamabadi, M., Seismic Vulnerability Assessment for Selected Steel Building by Use of Visual Inspection and Nonlinear Dynamic and Pushover Analyses (in Persian), Proceedings of the 5th International Congress in Civil Engineering, Mashhad, Iran, May 2000.
43. **Hosseini, M.** and Heidari, A., Optimum Design of Steel I-Section Tapered Girders by Using the Lagrange Penalty Function Approach, Proceedings of the 5th International

- Conference On Computational Structures Technology, Leuven, Belgium, September 2000.
44. **Hosseini, M.**, and Koloot, H., The Use of Potentially Weak Points as Structural Fuses in Pipelines Subjected to Large Ground Deformations, Proceedings of the 2nd Japan-Workshop on Earthquake Engineering and Disaster Mitigation – Focusing on Lifeline Earthquake Engineering, Kobe, Japan, November 2000.
 45. Mansour-Khaki A., **Hosseini, M.** and Shariat Mohaymany, A., Evaluating the Efficiency of Urban Transportation Systems during Earthquake Based on Supply and Demand Concepts, Proceedings of the 2nd Japan- Workshop on Earthquakes Earthquake Engineering and Disaster Mitigation – Focusing on Lifeline Earthquake Engineering, Kobe, Japan, November 2000.
 46. Ghafory-ashtiany, M. and **Hosseini, M.**, A Decade of Lifeline Earthquake Engineering Practice in , Proceedings of the 2nd Japan- Workshop on Earthquakes Earthquake Engineering and Disaster Mitigation – Focusing on Lifeline Earthquake Engineering, Kobe, Japan, November 2000.
 47. **Hosseini, M.**, Jabbarzadeh, M.J. and Ziyaeifar, M., A study on the brittle failure modes of ductile materials by using the wave propagation analysis, Proceedings of the 1st M.I.T. Conference On Computational Fluid and Solid Mechanics, Massachusetts Institute of Technology, Cambridge, USA, June 2001.
 48. **Hosseini, M.**, and Ajideh, H., Seismic Analysis of Buried Jointed Pipes Considering Multi-node Excitations and Wave Propagation Phenomena, Proceedings of the Pipelines 2001 Conference, ASCE, San Diego, USA, 2001.
 49. **Hosseini, M.**, and Toriki, A., An Analytical Study on the Effects of End Conditions on the Behavior of 45- and 90-Degree Elbows Subjected to Bending, Proceedings of the 16th international conference on Structural Mechanics in Reactor Technology (SMiRT 16), Washington DC, USA, August 2001.
 50. **Hosseini, M.**, and Hatami, M., Identification of the Dynamic Characteristics of Substation Components by Ambient and Free Vibration Tests, Proceedings of the 16th international conference on Structural Mechanics in Reactor Technology (SMiRT 16), Washington DC, USA, August 2001.
 51. **Hosseini, M** and Rabiei-far, H., Seismic Analysis of Buried and Aboveground Pipelines Considering Both Multi-support Excitation and Wave Propagation, Proceedings of the 10th International Conference on Soil Dynamics and Earthquake Engineering (SDEE-2001), Drexel University, Philadelphia, USA, October 2001.
 52. **Hosseini, M.** and Mohammadkhani Shali, S., Seismic Vulnerability Assessment of Some Existing Highway Bridges by Using 3-D Linear and Nonlinear Dynamic Analyses, New York Bridge Conference, New York, USA, October 2001.
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Research and Technical Reports (oldest first):

1. Seismic Vulnerability Analysis of an Existing Multi-span Slab Bridge Subjected to Horizontal and Vertical Ground Motions (in Persian), 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 (in Persian), by Sh. Soleymani 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 (in Persian), by K. Mirza and **M. Hosseini**, IIEES, 1999.
4. Vulnerability Assessment of Electric Power Generation and Distribution System in Iran (in Persian), by **M. Hosseini** and M. Hatami, IIEES, 2000.

5. Seismic Vulnerability Assessment of Tehran Highway Bridges, National Research Project Report (in Persian), by **M. Hosseini** et al, 2001.
6. Analytical Study of a Selected Part of Urban Wastewater Network Subjected to Seismic Waves (in Persian), by **M. Hosseini** and H. Ajideh, IIEES, 2002.
7. Behavior of Nonstructural Elements of Buildings in Bam Earthquake of December 2003 (in Persian), 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 (in Persian), 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 (in Persian), 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 (in Persian), by M. Hosseini, Gholamreza Heravi, Alireza Farshchi and Peyman Shadman Heidari, IIEES, 2010.

Books, Proceedings, and Monographs (oldest first):

1. Guidelines for the Seismic Design of Oil and Gas Pipelines (in Persian), IIEES publications, 1997.
2. Proceedings of the First National Conference on Lifeline Earthquake Engineering, IIEES publications, 1998.
3. Seismic Design Guide for Gas Transmission and Distribution Systems (in Persian), IIEES, August 2001.
4. Guidelines for Seismic Evaluation of Existing Buildings (Chapter 9: Nonstructural Elements), IIEES and MPO, September 2001. [A Set of 3 Volumes including: The Guidelines, The Commentary, and The Technical Constructional Details]

5. Guidelines for Quick Seismic Assessment of Existing Buildings (Section 4.8: Nonstructural Elements), IIEES and MPO, September 2006.
6. Earthquake Considerations in Architectural and Urban Design (in Persian, under preparation)
7. Structural Analysis, Theory and Practice, (in Persian, under preparation)
8. Fundamentals of Seismic Analysis and Design of Structures, (in Persian, under preparation)
9. Lifeline Earthquake Engineering, (in Persian, under preparation)
10. Seismic Analysis and Design of Liquid Storage Tanks, (in Persian, under preparation)

PRESENTATIONS AT SHORT COURSES, SEMINARS AND WORKSHOPS (most recent first):

1. 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.
2. 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.
3. Seismic Risk and the Role of Health Sector in Its Reduction, Presented in the 9th Monthly Seminar of “Professional Group for Health in Disasters, Tehran University, April 2006.
4. Disaster Risk Management in Megacities with Special Attention to Developing Countries, 1st Conference in Crisis Management, Bahrain, June 2005.
5. 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)
6. 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.
7. Earthquake Considerations in Architectural and Urban Design, Presented in School of Architecture, University of Illinois at Urbana-Champaign, USA, March 2002.
8. Seismology and Earthquake Engineering Research in Iran, Seminar presented at School of Civil and Environmental Engineering, Cornell University, USA, September 2001.
9. Seismic Behavior of Structures and Principles of Dynamic Analysis of Structures, Short Course held by IIEES for consulting engineers, 2000.

PROFESSIONAL EXPERIENCE:

Research (oldest first):

- Risk Mitigation and 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-.
- Seismic Vulnerability Assessment of Tehran Highway Bridges, National Research Project, 1997-2001.
- 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, 1994-1997.
- 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. Fundamentals of Earthquake Engineering in Architecture, Graduate Program in Architecture Technology, School of Architecture, **Tehran University**, 2006-. (every other semester)
2. Lifeline Earthquake Engineering, Graduate Program in Earthquake Engineering, Civil Engineering Department, School of Engineering, **Tehran University**, 2005.
3. Seismic Vulnerability Analysis, Graduate Program in Engineering Management of Disasters, School of Environmental Engineering, **Tehran University**, 2005.
4. Urban Facilities in Disasters, Graduate Program in Engineering Management of Disasters, School of Environmental Engineering, **Tehran University**, 2004-.
5. Modern Structures, Doctorate Program in Architecture, Science and Research Branch of the Islamic Azad University (**IAU**), 2003-. (every other semester)
6. Structural Concepts, School of Architecture, College of Architecture and Urban Design, **Cornell University**, USA, 2002.
7. Earthquake Considerations in Architectural and Urban Design, Graduate Program, College of Architecture and Urban Design, **Cornell University**, USA, 2002.
8. Finite Element Method, Graduate, Islamic Azad University (**IAU**), 1999-. (every other semester)
9. Matrix Structural Analysis, Graduate, **Shahid Rajaii University**, 1998.
10. Advanced Structural Dynamics, Graduate, 4 semesters, **IIEES and IAU**, 1997-.
11. Advanced Engineering Mathematics, Graduate, 3 semesters, **IAU**, 1992-.
12. Earthquake Engineering, Graduate, **IAU**, 1992-.
13. Dynamics of Structures, Graduate, **IAU** (1992-), **IIEES** (1996-), and **Shahid Rajaii University** (1998).
14. Statics, Undergraduate, 3 semesters, **IAU**, 1994-1996.
15. Earthquake Engineering, Undergraduate, 10 semesters, **IAU**, 1991-1996.
16. Dynamics of Structures, Undergraduate, 3 semesters, **IAU**, 1991-1994.
17. Structural Analysis II, Undergraduate, 8 semesters, **IAU**, 1991-1996.
18. Structural Analysis I, Undergraduate, 10 semesters, **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 m² 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 Control and Modification, Engineering Office of ian Fisheries Corporation, 1988-1991:
 - Marvdasht fish farm,
 - Bandar Abbas quay,
 - Yasooj fish fram,
 - 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 with regard to:
 - Shiraz, Bojnoord, and Tabriz Petrochemical Plants
 - Ministry of Agriculture
 - Organization of Development and Renovation of Schools (of Iran), in various provinces, including Khorasan Razave and Northern Khorasan, Golestan, Mazandaran, Gilan, West Azerbaijan, Kohgiluyeh and Biorahmad, Tehran and Semnan

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, 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), December 1991 – April 2001.

RESEARCH INTERESTS:

- 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.

- Risk mitigation and disaster management
- Urban planning and architectural and urban design in earthquake prone areas
- Aseismic analysis and design of special structures such as bridges, towers, dams, tanks and reservoirs, waterfront structures and also industrial facilities.
- 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
- Vibration isolation and control

TEACHING INTERESTS:

- Structural Analysis, with emphasis on the basic concepts of structural behavior
- Dynamics of Structures, with emphasis on problems in mathematical modeling
- Earthquake Engineering, with emphasis on seismic response analysis and fundamentals of reliable seismic design
- Statics, with emphasis on the physical facts based on which “engineering knowledge” is established

MEMBERSHIPS (oldest first):

- Iranian Society of Civil Engineers (ISCE), 1994-, (Head of Structure and Earthquake Committee since 1997, and Member of Board of Director and Treasurer since 2005).
- 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 since 2006).
- International Center for Disaster Mitigation Engineering (INCEDE), 1995-.
- Iranian Society of Structural Engineers (ISSE), 1995-.

PERSONAL:

- Born on Dec. 22, 1960 – Excellent Health (thanks God),
Height: 183 cm (6 ft),
Weight: 83 kg (183 lbs)
- Married with children: one daughter born in July 1994 and two sons (twins) born in March 1997
- Interested in poetry, traveling, and sports (volleyball)