

MANSOUR ZIYAEIFAR

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EDUCATION

		Graduation
Doctor of Philosophy	University of Alberta (Edmonton, Alberta, Canada, T6G-2G7) <ul style="list-style-type: none">• Structural Engineering• Subjects: Finite element method, concrete and steel structures,...	1996
Master of Science	University of Shiraz (Shiraz, Iran) <ul style="list-style-type: none">• Structural Engineering• Subjects: Dynamics of structures, optimization, ...	1987
Bachelor of Science	Iran University of Science and Technology (Tehran, Iran) <ul style="list-style-type: none">• Civil Engineering	1985

Experiences in Academic Environment

		Duration
Director of Structural Lab.	IIEES (International Institute of Earthquake Engineering and Seismology)	2005- ...
Head of Structural Dynamics Dept.	IIEES	1999- ...
Assis./Associate Prof.	International Institute of Earthquake Engineering and Seismology (IIEES)	1998- ...
Post Doctoral Fellow	Chiba Uni., 1-33 Yayoi-cho, chiba, 263, Japan. Sponsored by the Japanese Society for the Promotion of Science (JSPS)	1996-1998
Teaching & Research Assistant	University of Alberta , Edmonton, Alberta, Canada, T6G-2G7 <ul style="list-style-type: none">• T.A. & R.A. in Computer programming, Concrete structures	1995-1996

Professional Experiences

		Duration
Structural Engineer	Soil and Water Resources Consulting Eng. (SWRCE) A Consultant group in Dam Engineering <ul style="list-style-type: none">•In charge of structural analysis group, responsible for analysis of a concrete dam and its accessories (preliminary design phase)	1990-1992
Research Engineer	Industrial Research Center (IRC) An industrial Research & Development group <ul style="list-style-type: none">•Work on research projects in flow induced vibration, liquid sloshing, coupled systems, dynamics and control	1988-1990
Research Engineer	Rubber Industries & Research Co. (RIERCO) No. 95, Shahid Sabunchi St., Dr. Beheshti Ave. Tehran, Iran A Research & Development group in rubber and tire industries <ul style="list-style-type: none">•Responsible for tire structural modeling (Finite Element modeling of pneumatic tires for light trucks)	1989-1990 Part time

Recent Engineering projects involved

Foundation design of Tehran City Hall (located in Emam-Khomeini Square) in collaboration with AMOOD consultant group	2017
Seismic retrofit of a building in TMU (Tarbiat Modares University) using new technologies	2014
Design of a large scale Strong floor and Reaction wall for IIEES	2009-2011
Seismic retrofit of Iranian National Museum using Base Isolation, feasibility study	2006 ---
Evaluation of bridges subjected to traffic loads, software development	2004 - 5
Seismic Retrofit of three historical buildings, feasibility studies	2002 - 3
Development of Seismic Isolators (Hydraulic isolators) for light and heavy weight Transformers in Electrical Sub-stations	2001 - 2

International Publications (Refereed)

- Soghrat MR and Ziyaeifar, M. (2019) " Development of short return period spectra for the regions with high to moderate seismicity: an example in Iran", *Journal of Seismology*, Vol. 23(3), pp.521-536.
- Ramezani S. and Ziyaeifar, M. (2017) " A value based Desig approach for base isolated structural systems", *Journal of Civil Engineering and Environmental systems*, Vol. 34 (1), pp. 34-52.
- Soghrat MR and Ziyaeifar, M. (2016) " A predictive Equation for Vertical to Horizontal Response Spectral Ratios in Northern Iran", *Bulletin of the Seismological Society of America*, Vol. 106 (1), pp. 123-140.
- Soghrat MR and Ziyaeifar, M. (2016) " Ground Motion Prediction Equations for Horizontal and Vertical Components of Acceleration in Northern Iran", *Journal of Seismology*, Vol. 21 (1), pp. 99-125.
- Ziyaeifar, M. (2014) " Effects of track characteristics on dynamic responses of train-bridge systems", *Advances in Railway Engineering; an International Journal*, Vol.2, No.1, pp. 41-58.
- Ziyaeifar, M., Gidfar, S. and Nekooei, M. (2012) " A Model for Mass Isolation Study in Seismic Design of Structures", *Journal of Structural Control and Health Monitoring*, Vol. 19, pp. 627-645.
- Ziyaeifar, M. (2008) " Vibration Control in Train-Bridge-Track Systems", *International Journal of Vehicle-System Dynamics*, Vol.46, No.5, pp.355-384
- Maleki A. and Ziyaeifar, M. (2008) " Sloshing Damping in Cylindrical Liquid Storage Tanks with Baffles ", *Journal of Sound and Vibration*, Vol.311, No.1-2, pp.372-385
- Maleki A. and Ziyaeifar, M. (2007) "Damping enhancement of seismic isolated cylindrical liquid storage tanks using baffles", *Journal of engineering structures*, Vol.29, pp.3227-3240
- Ziyaeifar, M. (2005)" Interaction study of Train-Bridge-Track systems using Maxwell Model", *International Journal of Vehicle-System Dynamics*, Vol.43, No.11, pp.771-789
- Ziyaeifar, M., Meshki, H., Morovat, A. (2005)" Arg-e-Bam (Bam Citadel) and its History", *Earthquake Spectra*, Vol.21, No.S1, pp. S13-S28.
- Ziyaeifar, M. and Tavousi, Sh. (2005)" Mass Participation in Non-Classical Mass Isolated Systems", *Asian Journal of Civil Engineering*, Vol.6, No.4, pp.273-301

Ziyaeifar, M. (2002) “Mass Isolation, Concepts and Techniques”, *Journal of European Earthquake Engineering*, Vol. 16, No.2, pp. 43-55

Ziyaeifar, M. and Noguchi, H. (2000), “A refined model for beam elements and beam-column joints.” *Journal of Computers and Structures*, Vol. 76, No. 4, pp. 551-564

Ziyaeifar, M. and Noguchi, H. (1998), “Partial Mass Isolation in tall buildings.” *Journal of Earthquake Engineering and Structural Dynamics*, Vol. 27, No. 1, pp. 49-65

Ziyaeifar, M. and Elwi A.E. (1996). “Degenerated Plate Shell Elements with Refined Transverse Shear Strain.” *Journal of Computers & Structures*, Vol.60, No.6, pp.1079-1091

Ziyaeifar, M. and Elwi A.E. (1996). “Adjustable Refined Strain Field in Degenerated Shell Elements.” *Journal of Finite Elements in Analysis and Design*, Vol. 22, No. 1, pp. 85-91

Awards

Iran Research and Technology Award	The Iranian Ministry of Science, Research and Technology Gold Medal award for research and development in Earthquake Engineering	2005
Candidate in R.J. Melosh Competition	Candidate for “1995 R.J. Melosh Competition for the Best Student Paper in Finite Element Method” (was held in Duke University, North Carolina, USA)	1995