



## Department of Civil Engineering, Sharif University of Technology



دکتر حسن مقدم

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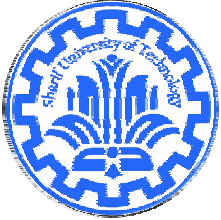
412 ,Civil Engineering Department

### **Professional Background**

Professor	2001-...	Civil Engineering Department, Sharif University of Technology, Tehran, Iran
Associate Professor	1995-2001	Civil Engineering Department, Sharif University of Technology, Tehran, Iran
Assistant Professor	1988-1995	Civil Engineering Department, Sharif University of Technology, Tehran, Iran
Research Assistant	1979-1988	Civil Engineering Department, Sharif University of Technology, Tehran, Iran

### **Educational Background**

PHD	1988	Civil Engineering Department, Imperial College, UK
MSC	1984	Civil Engineering Department, Imperial College, UK
BSC	1978	Civil Engineering Department, Sharif University of Technology, Tehran, Iran



## Department of Civil Engineering, Sharif University of Technology

### *Positions*

Deputy Minister and Head of Road and Transportation Research Centre

Head of Earthquake Engineering Centre in Sharif University

Deputy of Housing Research Centre

Head of Structures, International Institute of Eng Seismology and Earthquake Engineering

Head of Structures, Imam Khomeini International Airport

President of Structural Division, Reviewing Committee of Iranian Seismic Standard(2800)

Member of National Council on Safety of Structures

Member of Supreme Committee of Building (Municipality of Tehran)

Member of Seismic Standards of National Iranian Oil Company

### *Teaching*

Structural Analysis, Solid Mechanics, Soil Mechanics, Design of Steel Structures, Design of Concrete Structures, Design of Masonry, Dynamics of Structures, Theory of Stability, Theory of Elasticity, Earthquake Engineering, Seismic Design of Structures, Seismic Design of Bridges, Plastic Design.

### *Research Interests*

Development of Optimum Seismic Design Theory

Seismic Design of Infilled Frames

Development of Expedients for Evaluation and Control of Ductility of Infills Reinforced Infills

Dynamic analysis of Nonlinear Systems

Dynamic characteristics of Shaking Tables

Seismic Behaviour of Steel, Concrete, and Masonary Structures

Seismic Behaviour of Bridges

Loading Criteria for Bridges



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Seismic Behaviour of Space Structures

Seismic Behaviour of Earth Dams

Semirigid Connections

Seismic Retrofitting

Masonry Shear Walls

Nonlinear Bracing Systems

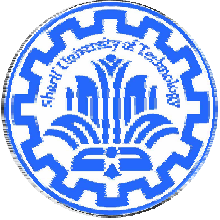
### *Projects & Activities*

- 2002 Steel Connections
- 2000 Seismic Retrofitting of bridges
- 1999 Seismic Behaviour of Space Structures
- 1998 Seismic Behaviour of semi-rigid connections
- 1997 Seismic Behaviour of irregular Structures
- 1996 Seismic strengthening of Steel Structures
- 1995 Seismic Retrofitting of Masonry building

### *Engineering Projects*

Design and Inspection of numerous projects such as:

- Seismic retrofit of many multistorey buildings and towers in Iran
- Establishing Design Spectrum for Ardak Dam
- Under rining Boali Tower's Foundation
- Design of Strong Floors for Structural Testing
- Design of Shaking Table Deck in Sharif University
- Evaluation and assessment of seismic stability of 54-storey Tehran Tower Building



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### *Book*

Seismic design of masonry structures, Sharif University Press, Tehran, 1994 (in Farsi).

Dynamics of structures, IIEES Publisher, Tehran, 1995 (in Farsi).

Dynamic characteristics of Iranian earthquakes, BHRC Publisher, Tehran, 1995 (in Farsi).

Seismic design of bridges, RTRC Press, Tehran, 1996 (in Farsi).

Earthquake engineering, RTRC Press, Tehran, 1996 (in Farsi).

Encyclopaedia of civil engineering, RTRC Press, Tehran, 1996.

Earthquake Engineering , fundamentals and application, Farhang Pub, Tehran, 2002, (Farsi).

### *Technical Reports*

Moghaddam, H. A, 1991, a study of the behaviour of structures, in 'an analytical report of the Manjil earthquake, Report No 70-91-1, Intlntit. of Seismology and Earthquake Eng (in Farsi).

Seismic behaviour of reinforced and unreinforced masonry structures, IIEES Press, Tehran, 1994 (in Farsi).

Semi rigid connections, IIEES Press, Tehran, 1995 (in Farsi).

Tunneling, RTRC Press, Tehran, 1996 (in Farsi).

An assessment of Iranian standard for bridge loading, RTRC Press, Tehran, 1996 (in Farsi).

Specification for geometry design of roads, RTRC Press, Tehran, 1996 (in Farsi).

Specifications for design of steel bridges, RTRC Press, Tehran, 1996 (in Farsi).



***Refereed Journals***

Moghaddam, H. A., 1989, design of brick infilled frames subjected to seismic loading, Iranian Journal of Science and Technology, Vol 13, Nos 2 & 3, pp 201-225.

Moghaddam, H. A., 1990, the technological developments of the Western Countries in modern times, Sharif Journal of Civil Eng, Tehran, Vol 1(in Farsi).

Moghaddam, H. A., 1990, on the backgrounds of engineering education developments in the Western Universities, Sharif Journal of Civil Eng, Tehran, Vol 2 (in Farsi).

Moghaddam, H. A., 1990, unexpected behaviour of infilled frames in Rasht during the Manjil earthquake 1990, Building Monthly Journal, Vol 20(in Farsi).

Moghaddam, H. A., 1990, a review of the new Iranian seismic code, Building Monthly Journal, Vol 20 (in Farsi).

Moghaddam, H. A., 1993, towards a scientific approach in the seismic design of structures, Sharif Journal of Civil Eng, Vol... June, pp 8-12 (in Farsi).

Moghaddam, H. A., 1995, on the shortcomings of technical education programmes in the developing countries, J. Abadi, Vol 16 (in Farsi).

Moghaddam, H. A., Estekanchi, H., 1995, on the characteristics of offcentre bracing systems, Journal of Construction Steel Research, 35, Elsevier Ltd.

Moghaddam, H. A., Estekanchi, H., 1999, seismic behaviour of offcentre bracings, Journal of Constructional Steel Research, Vol 51, Aug, pp 177-196.

Moghaddam, H. A., 2000, Seismic behaviour of space structures, Intl J. of Space Structures, Intl J. of space Strucs., Vol 15, No. 2, pp 119-135.

Moghaddam, H., Mohammadi, R. K., 2000, Ductility Reduction Factor of MDOF shear-



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building structures, J. of Earthquake Eng., Vol. 5, No 1(2000), 1-16.

### ***Conference Proceeding***

Moghaddam, H.A., Dowling, P.J., 1985, current methods in earthquake analysis and design of buildings, Civil Eng. Dept, Imperial College, CESLIC report EQ1, London.

Moghaddam, H. A., et al, 1986, calibration procedure for dynamic characteristics of shake tables, Proc Middle East and Mediterranean Conf on earthen and low strength masonry buildings in seismic areas, Ankara, Turkey, PP 353-359.

Moghaddam, H. A., Dowling, P.J, 1987, the state-of-art in infilled frames, ESEE report, No 87-2, Imperial college, London.

Moghaddam, H. A., Hargreaves, A.C., 1988, seismic behaviour of brick infilled frames, Proc Conf on Civil Engineering Dynamics, University of Bristol, UK.

Moghaddam, H. A., Dowling, P.J, Ambraseys, N.N, 1988, shaking table study of brick masonry infilled frames subjected to seismic excitations, Proc 9<sup>th</sup> World Conf on Earthquake Eng, Tokyo, Vol VIII, pp 913-918.

Moghaddam, H.A, Dowling, P.J, 1988, earthquake resistant design of brick infilled frames, Proc 4th Intl brick/masonry Conf, Dublin, pp 774-784.

Moghaddam, H. A., 1990, seismic design of infilled frames, Proc 9<sup>th</sup> European Conf on earthquake Eng, Moscow.

Moghaddam, H. A., 1990, dynamic behaviour of infilled frames, Proc 9<sup>th</sup> European Conf on earthquake Eng, Moscow.

Moghaddam, H. A., 1990, dynamic out of plane behaviour of infilled frames, Proc 9<sup>th</sup> European Conf on earthquake Eng, Moscow.

Chelghoum, A.E.K, Dowling, P.J, Moghaddam, H.A, nonlinear dynamic analysis of thin walled structures using a 48 D.O.F shell element, Proc 9<sup>th</sup> European Conf on earthquake



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Eng, Moscow.

Moghaddam, H. A., 1990, a combined method for industrial education, Gods newspaper (in Farsi).

Moghaddam, H. A., 1990, the development of engineering education in western universities, Gods newspaper (in Farsi).

Moghaddam, H. A., 1990, seismic design of infilled frames, 3<sup>rd</sup> Intl Congress of Civil Eng, Shirz (in Farsi).

Moghaddam, H. A., Hargreaves, A.C, 1991, design of masonry infilled frames against shear loads, CESLIC report AB5, Imperial College, London.

Khaloo, A., Moghaddam, H. A., 1991, lessons from the Manjil earthquake 1990, Proc Intl Conf on Structural Failure, National University of Singapore, pp 281-287.

Moghaddam, H. A., 1991, a study of seismic behaviour of buildings during the Manjil earthquake of 1990, Proc Intl Conf on Structural Failure, National University of Singapore, pp 289-293.

Moghaddam, H. A., 1991, seismic behaviour of structures during the Manjil earthquake 1990, Proc Intl Conf on Earthquake Blast & Impact, UMIST, Manchester.

Moghaddam, H. A., 1991, an investigation on the shortcomings of technical education programmes in the third world countries, 1<sup>st</sup> Intl Symposium on Technical Education, Tehran (in Farsi).

Moghaddam, H. A., Ataie, B., 1991, seismic behaviour of earth dams, 1<sup>st</sup> Intl Conf of Seismology and Earthquake Eng, Tehran (in Farsi).

Moghaddam, H. A., 1991, pounding of adjacent buildings during earthquake, 1<sup>st</sup> Intl Conf of Seismology and Earthquake Eng, Tehran (in Farsi).

Moghaddam, H. A., 1991, seismic strength of infilled frames, 1<sup>st</sup> Intl Conf of Seismology



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and Earthquake.