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Ehsan Moshtagh

Assistant Professor, University of Garmsar, Iran.

PostDoc: University of Tehran, Tehran, Iran (2019)

PhD: University of Tehran, Tehran, Iran (2018)

Visiting Scholar: University of Akron, Ohio, USA (2017)

MSc: Kharazmi University, Tehran, Iran (2010)

BSc: University of Semnan, Semnan, Iran (2007)

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Honor

- Awarded a scholarship by the Iran Ministry of Science, Research and Technology, PhD student, 2014-2018.
- Awarded a scholarship by the Iran Ministry of Science, Research and Technology, Visiting scholar, 2017.
- Selected as an Elite Student, Kharazmi University, Tehran, Iran (2010).

Research Interests

- Continuum Mechanics and Structural (Solid) Mechanics
- Waves Propagation
- Impact and Penetration Mechanics
- Dynamic of Structures
- Monitoring and Control of Structures (Smart Structures/Materials)
- Vulnerability Assessment (Non-Destructive Test and Analysis of Structures)
- Materials
- Renewable Energies and Environmental Approaches

Publications

- Shamsi M., Moshtagh E. and Vakili A. H.; Analytical model of isolated bridges considering soil-pile-structure interaction for moderate earthquakes. *Geomechanics and Engineering*, 34, 529-545, (2023).
  DOI: 10.12989/gae.2023.34.5.529

- Zheng Y., Li K., Ji M. and Moshtagh M.; Study on Fatigue Characteristics of Carbonation Erosion Prestressed Hollow Slabs in Whole Life Cycle. *Advances in Civil Engineering*, 2020, 1-17 (2020).
  DOI: 10.1155/2020/8816767

- Zheng Y., Kong W., Ji M., Wan C. and Moshtagh E.; Experimental investigation of concrete strength curve based on pull-out post-insert method. *International Journal of Distributed Sensor Networks*, 16, 1-20, (2020).
  DOI: 10.1177/1550147720944021

- Moshtagh E., Eskandari-Ghadi M., Pan E.; Time-harmonic dislocations in a transversely isotropic and multilayered magneto-electro-elastic half-space. *Journal of Intelligent Material Systems and Structures*, 30, 1932-1950, (2019).
  DOI: 10.1177/1045389X19849286

- Zheng Y., Zhang P., Cai Y., Zuquan J., Moshtagh E.; Cracking resistance and mechanical properties of basalt fibers reinforced cement-stabilized macadam. *Composites Part B: Engineering*, 165, 312-334, (2019).
  DOI: 10.1016/j.compositesb.2018.11.115

- Massumi A., Sadeghi K., Moshtagh E.; Effects of the Deviation in Materials' Strengths on the Lateral Strength and Damage of RC Frames. *Structural Engineering and Mechanics*, 68, 289-297, (2018).
  DOI: 10.12989/sem.2018.68.3.289

- Moshtagh E., Pan E., Eskandari-Ghadi M.; Shear excitation of a multilayered magneto-electro-elastic half-space considering a vast frequency content. *International Journal of Engineering Science*, 123, 214-235, (2018).
  DOI: 10.1016/j.ijengsci.2017.11.012

- Moshtagh E., Pan E., Eskandari-Ghadi M.; Wave propagation in a multilayered magneto-electro-elastic half-space induced by external/internal circular time-harmonic mechanical loading. *International Journal of Solids and Structures*, 128, 243-261, (2017).
  DOI: 10.1016/j.ijsolstr.2017.08.032

- Massumi A., Moshtagh E.; A new damage index for RC buildings based on variations of nonlinear fundamental period. *The Structural Design of Tall and Special Buildings*, 22, 50-60, (2013).
  DOI: 10.1002/tal.656.

- Moshtagh E.,Massumi A.; Seismic assessment of RC buildings by estimation of effectiveparameters on seismic behavior using non-destructive tests. *The Structural Design of Tall and Special Buildings*, 20, 816-831, (2011).
  DOI: 10.1002/tal.560.

Conferences

- Moshtagh E. and Massumi A.; A new period-based damage index for seismic assessment of RC frames and its verification. *Sixth International Conference of Seismology and Earthquake Engineering,* Tehran, Iran, 16-18 May, 2011 (English-Presentation).
- Moshtagh E. and Massumi A.; Vulnerability assessment of flexural reinforced concrete frames in different damage rates. *5th National Congress of Civil Engineering*, Ferdowsi University of Mashhad, Mashhad, Iran, 4-6 May, 2010 (Persian-Presentation.
- Moshtagh E. and Massumi A.; Utilizing non-destructive tests to increase the precision of seismic assessment and to increase reliability of the rehabilitation and reconstruction of significant structures. *The First National Conference on Engineering and Management of Infrastructures,* School of Engineering, University of Tehran, Tehran, Iran, 28-28 October, 2009 (Persian-Poster).

Courses

- Dynamic of Structures
- Finite Element Method
- Elastodynamic
- Mathematics (Advanced)
- Mechanics of Materials
- Analysis of Structures
- Steel Structures Design
- Reinforced Concrete Structures Design