

EDUCATION

M.Sc Razi University, Kermanshah, Iran, Civil Engineering 2015-2018

Thesis: “Investigating the effects of welding induced residual stresses on the behavior of gusset plates in V bracings under lateral load”

B.Sc Razi University, Kermanshah, Iran, Civil Engineering 2011-2015

B.Sc. Project: “Study of different methods of numerical modeling of masonry walls”

RESEARCH INTERESTS

- Fracture Mechanics
- Finite Element Method
- Micro and Meso-Scale Modeling of Structures
- Failure Analysis of Structures
- Developing Novel Numerical Methods (XFEM, Mesh-free Methods)
- Viscoelastic Behavior of Polymers
- Architected Materials and Their Applications
- Additive Manufacturing (Experimentally and Numerically)

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PUBLICATIONS

Journal Publications

• Raeisi, Roya, Freydoon Rezaie, and M. R. M. Aliha. "**Mixed mode I/II and I/III fracture toughness investigation for preplaced aggregate concrete mixtures: Experimental study and theoretical prediction.**" *Fatigue & Fracture of Engineering Materials & Structures* 47.8 (2024): 2873-2887.

<https://doi.org/10.1111/ffe.14328>

• Raeisi, Roya, Freydoon Rezaie, and Ali Permanoon. "**Meso-scale modeling of concrete fracture by considering the aggregates and voids effect.**" *EFFLATOUNIA-Multidisciplinary Journal* 5.2 (2021).

<http://efflatounia.com/index.php/journal/article/view/387>

• Akhaveissy, A. H., Ali Permanoon, and Roya Raeisi. "**Numerical modeling of masonry wall under underground waves.**" *Scientia Iranica* (2021).

http://scientiairanica.sharif.edu/article_22388.html

• Khalilzadeh Vahidi, E., A. Permanoon, and R. Raeisi. "**DETERMINE THE OPTIMAL FORM FACTOR EDGED CRACKED SEMICIRCULAR DISK UNDER UNIFORM PRESSURE LOAD.**" *Sharif Journal of Civil Engineering* 35.2.2 (2019): 165-172.

http://sjce.journals.sharif.edu/article_20914.html?lang=en

• Akhaveissy, Amirhoshang, Ali Permanoon, and Roya Raeisi. "**Analyzing the Edge Cracked Semicircular Disc under Uniform Compressive (ECSD (UD)) Load.**" *Periodica Polytechnica Civil Engineering* 62.2 (2018): 353-362. <https://pp.bme.hu/ci/article/view/11111>

Conference Papers

- • Raeisi.R, Permanoon.A. “*Evaluation of frame performance with high damping rubber seismic isolation (HDR) and shape memory alloy (SMA)*”. Third International Conference and 7th National Conference on Civil Engineering Materials and Structures. <https://civilica.com/doc/901256/>
- • Akhaveissy A.H, Permanoon A, Raeisi R. “*Seismic retrofit of defective exterior RC ceiling-column*”. 8th International Conference on Seismology and Earthquake Engineering. <https://civilica.com/doc/1022577/>
- • Raeisi.R, Akhaveissy A.H Permanoon.A, “*Retrofit masonry walls with HDR rubber sheets.*” National conference of new research and training civil engineering, architecture. Urbanism and environment of Iran. <https://civilica.com/doc/638775/>
- • Raeisi.R, Akhaveissy A.H, “*Investigating the effect of welding speed and thickness on the maximum thermal degree of steel plates.*” 2nd.International Conference on Civil Engineering, Architecture and Urban Design. <https://civilica.com/doc/679683/>
- • Raeisi.R, Akhaveissy A.H, “*Investigating the longitudinal strain caused by the welding of steel plates.*” 2nd.International Conference on Civil Engineering, Architecture and Urban Design. <https://civilica.com/doc/679679/>

PROFESSIONAL TRAINING

Seminar or Workshop

- • Presenting in Third International Conference and 7th National Conference on Civil Engineering Materials and Structures,
- • Participate in Abaqus/ Ansys/ SolidWorks/ courses

Certification

- • Construction details of reinforced concrete structures
- • Basics of Health, Safety and Environment
- • Construction details of mechanical installations of buildings
- • Construction details of shallow foundation
- • Construction details of Steel structures
- • Different types of demolition methods for building and structures
- • Familiarity with the contractor job description
- • Construction details of electrical installations of buildings
- • Building materials and relevant standards
- • Basic points of construction site and construction details

ACADEMIC PROJECTS

- • Design of Industrial Buildings
- • Performance Based Design of Five-Story Building
- • Thermo-Mechanical Analysis of a welded plate by Ansys

- Numerical modeling of masonry walls by Ansys
- Design of five-story reinforced concrete building
- Design of six-story steel building

EXPERIENCE

Teaching experience

Teaching assistant civil engineering, Razi University, Kermanshah, Iran

- Finite element method course (2016-2018)

Teaching assistant civil engineering, Razi University, Kermanshah, Iran

- Structural Dynamics (2016-2018)

Teaching assistant civil engineering, Razi University, Kermanshah, Iran

- Engineering Mechanics Statics (2012-2014)

Language skills

- Persian Native

- English TOEFL (Total 101, Reading: 29 Writing: 28 Listening: 26 Speaking: 18)

GRE (Quantitative: 170, Verbal: 162, Analytical Writing: 4)