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Education

- ✓ B.Sc, Civil Engineering, Sistan and Baluchestan University - 1989
- ✓ MS, Hydraulic Structure, Tarbiat Modares University - 1994
- ✓ PhD, Civil Engineering - Structure, Cardiff University - 2005

Master Thesis

1. Reliability based Design Optimization of Steel Buckling Restrained Brace Frames Equipped with Smart Material

[Mahmoud Miri, Mohsen Rashki, Sadegh Etedali]

نیمسال دوم سال تحصیلی 99-00

2. investigation of the effecting pozzolan on high strength concrete

[Mahmoud Miri, Mohsen Rashki]

نیمسال اول سال تحصیلی 97-98

3. investigation of the effecting pozzolan on high strength concrete

[Mahmoud Miri, Mostafa Aliahmad]

نیمسال اول سال تحصیلی 97-98

Journals Papers

2025

1. [Overlap effects of one-end welded box-profile shear connectors on interlayer shear behavior](#)

Mahdi Daliri, Hamed Ghohani Arab, Mahmoud Miri, Seyed Hashem Khatibi

Structures Volume: (71) 107982-1 - 107982-12

2024

2. [On the effect of nano calcium carbonate on the flexibility and tensile-shear cracking resistance of greener WMA asphalt concretes containing RAP contents](#)

Farman Karimi, Seyed roohallah Mousavi, Mahmoud Miri

Case Studies in Construction Materials Volume: (20) e03159 -

3. [Tensile-Tear cracking resistance of RAP incorporated asphalt Mixtures, enhanced by Warm mix asphalt additive and nano calcium carbonate](#)

Farman Karimi, Seyed roohallah Mousavi, Mahmoud Miri

THEORETICAL AND APPLIED FRACTURE MECHANICS Volume: (132) 104467 -

4. [Investigation of mode I fracture behavior of copper slag-SFRSCC](#)

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

ENGINEERING STRUCTURES Volume: (315) 118513 -

2023

5. [Multi-objective optimal design of SC-BRB for structures subjected to different near-fault earthquake pulses](#)

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Structures Volume: (36) 1021 - 1031

6. [Comprehensive experimental and numerical modeling of strength parameters of eco-friendly steel fiber reinforced SCC containing coarse copper slag aggregates](#)

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

CONSTRUCTION AND BUILDING MATERIALS Volume: (367) 130304-1 - 130304-28

7. [The behavior of steel-concrete-steel sandwich composite beams with box-profile shear connectors: Experimental and numerical](#)

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

Structures Volume: (54) 644 - 656

8. [Prediction of the interlayer shear strength of SCS panels with corrugated-strip shear connectors using gene expression programming algorithm](#)

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

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9. Evaluating the flexural behavior of green copper slag-contained steel fiber reinforced SCC beams with/without initial notches

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

CONSTRUCTION AND BUILDING MATERIALS Volume: (395) 132316-1 - 132316-16

10. Prediction model and measurement of fracture parameters in eco-friendly coarse copper slag-SFRSCC based on semi-circular bending test

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

CONSTRUCTION AND BUILDING MATERIALS Volume: (406) 133418-1 - 133418-24

11. Using the Response Surface Method and Artificial Neural Network to Estimate the Compressive Strength of Environmentally Friendly Concretes Containing Fine Copper Slag Aggregates

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

Iranian Journal of Science and Technology-Transactions of Civil Engineering Volume: (47) 3415 - 3429

12. an adaptive artificial neural network for reliability analysis of complex engineering system

Naser Cheragi, Mahmoud Miri, Mohsen Rashki

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13. Interlayer behavior investigation of box profile shear connectors in steel-concrete-steel sandwich structures

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14. بررسی فروریزش تدریجی و تحلیل شکنندگی لرزه ای قاب های دارای مهاربند کمانش تاب مجهز به الیاز های حافظه دار شکلی

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15. Reliability and reliability-based sensitivity analysis of self-centering buckling restrained braces using meta-models

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16. Effect of waste glass and curing aging on fracture toughness of self-compacting mortars using ENDB specimen

Seyed roohallah Mousavi, Iman Afshoon, Mohammadali Bayatpoor, Amirhossein Davarpanah tanha gochan, M
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17. Combining Kriging meta models with U-function and K-Means clustering for prediction of fracture energy of concrete

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18. Reliability-Based Design Optimization of Recycled Coarse Aggregates Used in Corrosive Environment

, Mahmoud Miri, Mohammad Reza Sohrabi
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19. Influence of Nano-silica and Crack Width on Corrosion Parameters of Pre-cracked Reinforced Concrete Beams

, Mahmoud Miri
Periodica Polytechnica-Civil Engineering Volume: (65) 577 - 587

20. تعیین درصد بهینه سنگدانه های درشت بتن بازیافتی مورد استفاده در محیط های خورنده براساس مدل کریجینگ

, Mahmoud Miri, Mohammad Reza Sohrabi
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21. Probabilistic Optimum Percentage of Recycled Aggregates Contaminated with Chloride Ion in Concrete Mix

Abdol Ghaium Dehviri, mohsen khazaei, Mohammad Reza Sohrabi, Mahmoud Miri
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22. ارزیابی احتمالاتی ارتعاش آزاد ورق مدرج تابعی با استفاده از روش حل سه بعدی

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24. Experimental Investigation on Chloride Diffusion Coefficient of Self-compacting Concrete in the Oman Sea

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25. Behavior of Reinforced Concrete Beams with Corroded Stirrups and Tensile Rebars

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26. Probabilistic Evaluation on the Free Vibration of Functionally Graded Material Plates Using 3D Solution and Meta-Model Methods

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27. New neural network-based response surface method for reliability analysis of structures

Hossein Beheshti nezhad, Mahmoud Miri, Mohammad Reza Ghasemi

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28. System-level reliability sensitivity analysis by using weighted average simulation method

Mohsen Rashki, Mehdi Azhdary Moghaddam, Mahmoud Miri

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29. Experimental Investigation of Corrosion Cracking in Reinforced Concrete Beams Containing Nano Wollastonite

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Mahmoud Miri, Ali Vatani,

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31. New simulation-based frameworks for multi-objective reliability-based design optimization of structures

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32. An improved binary bat flexible sampling algorithm for reliability-based design optimization of truss structures with discrete-continuous variables

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33. Structural reliability assessment using an enhanced adaptive Kriging method

Jafar Vahedi, Mohammad Reza Ghasemi, Mahmoud Miri

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34. An adaptive divergence-based method for structural reliability analysis via multiple Kriging models

Jafar Vahedi, Mohammad Reza Ghasemi, Mahmoud Miri

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35. Reliability-Based Economic Seismic Design

Hamzeh Yarahmadi, Mahmoud Miri, Mehrelah Rakhshani Mehr

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38. Reliability-based design optimization of rotating FGM cylindrical shells with temperature-dependent probabilistic frequency constraints

, Mahmoud Miri, Mohsen Rashki

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39. Fuzzy time dependent structural reliability analysis using alpha level set optimization method based on genetic algorithm

, Mahmoud Miri,

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40. Probabilistic and Experimental investigating the effect of pozzolan and Lumachelle fine aggregates on roller compacted concrete properties

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41. The effect of Cover Pressure Strength and bars corrosion on Cracking of Reinforced Concrete Structures

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49. ارزیابی آزمایشگاهی اثر ترکیب متاکائولین و پومیس بر دوام و خوردگی میلگرد در بتن خودتراکم

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51. ارزائه روشني براي طراحي براساس عملکرد لرزه اي احتمالاتي

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55. An enhanced simulation-based design method coupled with meta-heuristic search algorithm for accurate reliability-based design optimization

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56. PERFORMANCE INVESTIGATION OF NEURO-FUZZY SYSTEM

, Mohammad Givehchi, Mahmoud Miri,
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57. Fuzzy reliability analysis using a new alpha level

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58. An enhanced simulationbased design method coupled with metaheuristic search algorithm for accurate reliabilitybased design optimization

, Mahmoud Miri, Mohsen Rashki
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59. A methodology to determine the response modification factor for probabilistic performance-based design

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60. Performance investigation of neuro-fuzzy system for earthquake prediction

, Mohammad Givchi, Mahmoud Miri,

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, Mahmoud Miri, Naser Shabakhty

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62. A method to rank and measure the importance of random variables of random variables on failure probability of structures

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67. Introducing Conjugate gradient optimization for modified HL-RF method 31/1/2013

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68. A simulation-based method for reliability based design optimization problems with highly nonlinear constraints

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87. Studying the possibility of using galvanostatic pulse transient technique in concrete beam bars corrossion

, Mohammad Reza Sohrabi, Mahmoud Miri

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88. بررسی امکان استفاده از تکنیک پالس گذاری گالوانو استاتیک در خوردگی میلگردهای تیر بتنی

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1. The effect of environmental condition on concrete durability of water reservoir

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2. The study of positional damage of birdge due to flooding

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