



## Mohammad Reza Sohrabi

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
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## Education

- ✓ B.Sc, Civil Engineering,University of Tehran - 1984
- ✓ MS, Civil Engineering,University of Tehran - 1986
- ✓ PhD, Civil Engineering - Structure,University of Newcastle Upon Tyne - 1996

## Courses

1. Statics

2. Design of Reinforced Concrete Structures II

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## Journals Papers

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### 2021

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#### 1. A high-performance four-node fat shell element with drilling degrees of freedom

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi

ENGINEERING WITH COMPUTERS Volume: (37) 2837 - 2852

#### 2. Damage Detection of Single Tapered Poles Using APSO Algorithm

Hamed Ghohani Arab, Ali Mahalati, Arash Naderi, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi

Volume: (53) 5 - 5

#### 3. A swift technique for damage detection of determinate truss structures

Arash Naderi, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi, Babak Dizangian

ENGINEERING WITH COMPUTERS Volume: (37) 2183 - 2191

#### 4. Corrosion effect of the main rebar and stirrups on the bond strength of RC beams

, Mohammad Reza Sohrabi, Seyed roohallah Mousavi

Structures Volume: (32) 1444 - 1454

#### 5. HYBRID ARTIFICIAL PHYSICS OPTIMIZATION AND BIG BANG-BIG CRUNCH ALGORITHM (HPBA) FOR SIZE OPTIMIZATION OF TRUSS STRUCTURES

Hosein Sangtarash, Mohammad Reza Ghasemi, Hamed Ghohani Arab, Mohammad Reza Sohrabi

International Journal of Optimization in Civil Engineering Volume: (11) 55 - 73

#### 6. Strengthening of Lap-Spliced RC Beams Using Near-Surface Mounting Method

Seyed roohallah Mousavi, Mohammad Reza Sohrabi, , EBRAHIM GHOLAMHOSSEINI

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

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

, Mahmoud Miri, Mohammad Reza Sohrabi

JOURNAL OF MATERIALS IN CIVIL ENGINEERING Volume: (33) 04021042-1 - 16

### 2020

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#### 8. Formulation and evaluation of a new four-node quadrilateral element for analysis of the shell structures

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi

ENGINEERING WITH COMPUTERS Volume: (36) 1289 - 1303

#### 9. An efficient three-node triangular Mindlin-Reissner flat shell element

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi

Journal of the Brazilian Society of Mechanical Sciences and Engineering Volume: (42) 1 - 17

#### 10. Total and Partial Updating Technique: A Swift Approach for Cross-Section and Geometry Optimization of Truss Structures

Arash Naderi, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi, Babak Dizangian

KSCE Journal of Civil Engineering Volume: (24) 1219 - 1227

#### 11. A fast damage detecting technique for indeterminate trusses

Arash Naderi, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi, Babak Dizangian

STRUCTURAL ENGINEERING AND MECHANICS Volume: (75) 585 - 594

#### 12. Effects of stirrups in spliced region on the bond strength of corroded splices in reinforced concrete (RC) beams

, Mohammad Reza Sohrabi, Seyed roohallah Mousavi

CONSTRUCTION AND BUILDING MATERIALS Volume: (230) 116873-1 - 116873-9

### 2019

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#### 13. New models for estimating compressive strength of concrete confined with FRP sheets in circular sections

, Seyed roohallah Mousavi, Mohammad Reza Sohrabi

JOURNAL OF REINFORCED PLASTICS AND COMPOSITES Volume: (38) 1014 - 1028

#### 14. A Proposed Model for Estimating the Relative Bond Strength of RC Beam with Corroded Lap Spliced Steel Bars, considering $c/db$

, Mohammad Reza Sohrabi, Seyed roohallah Mousavi

Volume: (32) 99 - 110

### 2018

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#### 15. Using Response Surface Methodology and providing a modified model using whale algorithm for estimating the compressive strength of columns confined with FRP sheets

, Seyed roohallah Mousavi, , Mohammad Reza Sohrabi, Mohsen Rashki

CONSTRUCTION AND BUILDING MATERIALS Volume: (183) 163 - 170

#### 16. Evaluation the behavior of pre-fabricated moment connection with a new geometry of pyramidal end block under monotonic and cyclic loadings

Morteza Kazemi torbaghan, Mohammad Reza Sohrabi, hasan haji kazemi

STEEL AND COMPOSITE STRUCTURES Volume: (29) 391 - 404

#### 17. Experimental and numerical investigation of strengthened deficient steel SHS columns under axial compressive loads

, Mohammad Reza Sohrabi, Gholamreza Azizyan, Kambiz Narmashiri

STRUCTURAL ENGINEERING AND MECHANICS Volume: (67) 207 - 217

## 18. INVESTIGATING THE BEHAVIOR OF SPECIALLY PRE-FABRICATED STEEL MOMENT CONNECTION UNDER CYCLIC LOADING

Morteza Kazemi torbaghan, Mohammad Reza Sohrabi, hasan haji kazemi

Advanced Steel Construction Volume: (14) 412 - 423

## 2017

### 19. Interactions of Column Pyramid Head and Special Prefabricated Steel Connection under Cyclic Loading

Morteza Kazemi torbaghan, Mohammad Reza Sohrabi,

Journal of Civil Engineering Volume: (30) 43 - 62

### 20. An investigation into the time dependency of shear strength of clay brick walls an approximate approach

Mohammad Sherafati, Mohammad Reza Sohrabi

CONSTRUCTION AND BUILDING MATERIALS Volume: (155) 88 - 102

## 2016

### 21. Study of BSB Connections Behavior under Cyclic Loads

Morteza Kazemi torbaghan, Mohammad Reza Sohrabi,

Volume: (13) 31 - 43

### 22. A Proposed Approach to Mitigate the Torsional Amplifications of Asymmetric Base-isolated Buildings During Earthquakes

s e, Mohammad Reza Sohrabi

KSCE Journal of Civil Engineering Volume: (20) 768 - 776

### 23. Strengthening effects of spiral stairway on the buckling behavior of metal tanks under wind and vacuum pressures

Amir Shokrzadeh, Mohammad Reza Sohrabi

THIN-WALLED STRUCTURES Volume: (106) 437 - 447

### 24. Buckling of ground based steel tanks subjected to wind and vacuum pressures considering uniform internal and external corrosion

Amir Shokrzadeh, Mohammad Reza Sohrabi

THIN-WALLED STRUCTURES Volume: (108) 333 - 350

### 25. Design of a decoupled PID controller via MOCS for seismic control of smart structures

Sadegh Etedali?, Saeed Tavakoli Afshari, Mohammad Reza Sohrabi

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Earthquakes and Structures Volume: (10) 1067 - 1087

**26. Performance of Masonry Walls during Kaki, Iran, Earthquake of April 9, 2013**

Mohammad Sherafati, Mohammad Reza Sohrabi

JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES Volume: (30) 1 - 19

**27. Probabilistic Model for Bed-Joint Shear-Sliding Strength of Clay-Brick Walls Based on Field Test Data**

Mohammad Sherafati, Mohammad Reza Sohrabi

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering Volume: (2) 1 - 13

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## 2014

**28. prediction of microcracks in concrete using fuzzy systems**

, Mohammad Reza Sohrabi, Hassan Mishmast Nehi

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (27) 1161 - 1168

**29. Effect of Rebar Corrosion on the Behavior of a Reinforced Concrete Ceam Using Modeling and Experimental Results**

Mohammad Reza Sohrabi, Mahmoud Miri

Materiali in Tehnologije Volume: (48) 395 - 402

**30. Effect of rebar corrosion on behavior of reinforced concrete beam using modeling and experimental results**

, Mohammad Reza Sohrabi, Mahmoud Miri

Materiali in Tehnologije Volume: () 111 - 118

**31. EFFECT OF REBAR CORROSION ON THE BEHAVIOR OF A REINFORCED CONCRETE BEAM USING MODELING AND EXPERIMENTAL RESULTS**

, Mohammad Reza Sohrabi, Mahmoud Miri

Materiali in Tehnologije Volume: () 395 - 402

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## 2013

**32. An independent robust modal PID control approach for seismic control of building**

, Mohammad Reza Sohrabi, Saeed Tavakoli Afshari

Journal of Civil Engineering and Urbanism Volume: (3) 279 - 291

**33. Optimal PD/PID Control of Smart Base Isolated Buildings Equipped With Piezoelectric Friction Dampers**

, Mohammad Reza Sohrabi, Saeed Tavakoli Afshari

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Earthquake Engineering and Engineering Vibration Volume: (12) 39 - 54

**34. An Independent Robust Modal PID Control Approach for Seismic Control of Buildings**

, Mohammad Reza Sohrabi, Saeed Tavakoli Afshari

Journal of Civil Engineering and Urbanism Volume: ( ) 279 - 291

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**2012**

**35. Studying the possibility of using galvanostatic pulse transient technique in concrete beam bars corrosion**

, Mohammad Reza Sohrabi, Mahmoud Miri

Volume: (2) 63 - 73

**36. بررسی و مقایسه بتن حاوی خرده لاستیک و پودر لاستیک به همراه میکروسیلیس**

Mohammad Reza Sohrabi

Volume: (42) -

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

Mohammad Reza Sohrabi, , Mahmoud Miri

Volume: (5) 63 - 73

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**2011**

**38. Analyzing Effective Length Factor of OBS Members**

, Mohammad Reza Sohrabi

JOURNAL OF ADVANCED MATERIALS Volume: (260) -

**39. An Investigation into Mechanical Properties of Self Compacting Concrete Incorporating Fly Ash and Silica Fume at Different Ages of Curing**

, Mohammad Reza Sohrabi,

JOURNAL OF ADVANCED MATERIALS Volume: (260) 3 - 7

**40. Mechanical Properties of Rubberized Self Compacting Concrete Containing Silica Fume**

, Mohammad Reza Sohrabi,

JOURNAL OF ADVANCED MATERIALS Volume: (260) 3 - 7

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**2006**

**41. اثر سرعت آب و تعداد چرخه فرآوری مغناطیسی بر بتن حاوی میکروسیلیس**

Mohammad Reza Sohrabi

Volume: ( ) -

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## Conferences Papers

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## Research Project

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1999

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[1. The effect of Zahedan water on Concrete strength properties](#)

Mohammad Reza Sohrabi - 1999