

### **Iman Elyasian**

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Born 1980/06/06

### **Education**

**Master of Structural Engineering, Yazd University, Iran (2002-2005)**

**Grade Point Average (2002-2005) : 17.06 out of 20(3.41/4)**

**Ranked 1<sup>st</sup> among all the Structural M.Sc STUDENTS**

**B.S, Civil Engineering, Najaf Abad Azad University, Iran (1998-2002)**

**Grade Point Average (1998-2002) : 15.55 out of 20(3.11/4)**

### **Honors and Award**

- **Ranked 1<sup>st</sup> among all the Structural Engineering at the end of Msc,2005**
- **Ranked 1<sup>st</sup> among Participants in Azad University entrance for M.sc degree in Najaf Abad Azad University in 2002**
- **Ranked 110<sup>st</sup> among Participants in Mathematic Group for Engineering in Azad University & 25<sup>st</sup> in Najaf Abad all Groups of Engineering in 1998**
- **Honor Membership for Young Researchers Club in 1998 till now**

### **Academic Accomplishment:**

"Evaluation of shear strengthening of RC beams by FRP using Finite element method parametrically" Transmission line: (2004-2005)

### **Supervisor:**

**Dr.H.R.Ronagh Coordinator & Senior Lecturer (associate professor), Department of Civil Engineering, the University of Queensland, Brisbane, Australia, [h.ronagh@uq.edu.au](mailto:h.ronagh@uq.edu.au)**

**Dr.N.Abdoli head of Department of Civil Engineering, education & research, chief & Asistant Professor, Yazd University, Yazd, Iran , [N\\_Abdoli@yazduni.edu.ir](mailto:N_Abdoli@yazduni.edu.ir)**

### **Bachelor projects**

- Road Project in 2000 (Design 5 Kilometres of road with all types of Arc & Calculation of excavation & filling with compacted soil)
- RC Structure project in 2001(Analysis& design 12 stories structure with Shear wall)
- Steel structure project in 2000(Analysis & design 6 stories structure)

## **BOOKS**

- 1-A.Karimi,H.Meisami,S.Saeedi,I.Elyasian, Strengthened Masonry Structures with FRPs
- 2-A.Karimi,H.Meisami,I.Elyasian, Reinforced Concrete Structures Strengthened With FRP,2010,Publication Research Center of Water & Supply, Iran
- 3-I.Elyasian,H.Meisami,Rehabilitation Methods and Vulnerability Assessment, Islamic Azad University,2010,Iran
- 4-I.Elyasian,H.Meisami,A.karimi,Rehabilitation Reinforced Concrete Structures With FRP Composites And Steel Plates,2010, Publication Research Center of Water & Supply, Iran
- Under Publication
- 5-Nano Technology Application in Engineering
- 6-Operation and Construction of Cooling Towers
- 7-Strengthening and Rehabilitation Soil and Foundation
- 8- Energy Dissipation with application base isolations and dampers
- 9-Retrofitting Special Structures Such as Domes, Dams, Tunnels, Modular Structures, Space Frames
- 10-Bridge Rehabilitation, Repair and Strengthening
- 11-Construction Methods
- 12-Crisis Management
- 13- Advanced Concrete Technology
- 14-Health and Safety Environmental
- 15-Welding Methods and Operation

### **Graduate Courses in M.Sc**

- Advanced Mathematic 19.5 from 20 (3.9/4)
- Theory of Elasticity 17.75 from 20 (3.55/4)
- Matrix analysis of structures 15 from 20 (3/4)
- Advanced RC Structures 16.5 from 20 (3.3/4)
- Dynamic of Structures 17.5 from 20 (3.5/4)

- Advanced Foundation 15.25 from 20 (3.1/4)
- Plastic Analysis of Structures 16 from 20 (3.2/4)
- Stability Theory of Structures 15 from 20 (3/4)
- Finite Element Method 17.5 from 20 (3.5/4)
- Structure Laboratory 18 from 20 (3.6/4)

**My home page:**

<http://www.irancivilcenter.com/en/engineers/profile.php?UID=3321>

**Publications**

**1-I.Elyasian, N Abdoli, h.Ronagh,**

evaluation of parameters effective in FRP shear strengthening of RC beams using FE method, Asian Journal of civil engineering(building and housing)vol 7 No3 (2006) PP249-257

Asian journal link: [www.bhrc.ac.ir/Publication/AJCE/PDF/Vol7-No3/ImanElyasian-5.pdf](http://www.bhrc.ac.ir/Publication/AJCE/PDF/Vol7-No3/ImanElyasian-5.pdf)

**2,3-I.Elyasian, h.Ronagh**

Evaluation of parameters effective in FRP shear strengthening of RC beams using FE method

Proceeding 5<sup>th</sup> seismology & earthquake engineering(SEE5)13-16 may2007

Tehran, Iran & 7<sup>th</sup> International congress of civil engineering in Tarbiat modaress university may 2006, Tehran, Iran

<http://www.icce7th.com/papers/pdf/F1512.pdf> TMU ICCE 7<sup>th</sup> Link:

**4-H .Karbalye, I.Elyasian “Durability of Reinforced Concrete Containing Different Pozzolans in Oroomyeh Lake Environment”** Electronic Journal of structural engineering, Australia, Ejse.org under Review

**5-H.Aghaei, I, Elyasian, M.Izadi Nia “RC Frame Strengthened by CFRP laminates“**Amirkabir Journal of Science and Research, under Review

**6-I.Elyasian “Seismic Rehabilitation and strengthening of RC buildings”**

Payam-e Mohandes A Bimonthly magazine of civil engineering, Architecture. Mech & Elec Engineering and city palnning- Volume 38 PP 28-35 -July 2007 & Below internet link

**6- [http://www.irancivilcenter.com/fa/articles/view/?article\\_id=79](http://www.irancivilcenter.com/fa/articles/view/?article_id=79) & <http://www.Iransaze.com>**

**7-I.Elyasian “Submitted method for shear strengthening of RC beams with FRP laminates”** Payam-e Mohandes VOL 34 PP 28-30-Nov 2006 &

**<http://www.Payam-e-Mohandes.com>**

**7- [http://www.irancivilcenter.com/fa/articles/view/?article\\_id=51](http://www.irancivilcenter.com/fa/articles/view/?article_id=51)**

**8-I.Elyasian “RC structures Retrofit and introduction of strengthening with FRP laminates”** Panjereh magazine Related Civil Engineering organization of Qum province in Iran

And Young Research club congress in Kashan Azad University, Oral presentation September 2005

**8- [http://www.irancivilcenter.com/fa/articles/view/?article\\_id=50](http://www.irancivilcenter.com/fa/articles/view/?article_id=50)**

**9-I.Elyasian “What is delamination in flexural strengthening of RC beam with FRP laminates”**

**9- [http://www.irancivilcenter.com/fa/articles/view/?article\\_id=54](http://www.irancivilcenter.com/fa/articles/view/?article_id=54)**

**10-I.Elyasian “Techniques for strengthening RC structures with FRP’S”**

**10 - [http://www.irancivilcenter.com/fa/articles/view/?article\\_id=61](http://www.irancivilcenter.com/fa/articles/view/?article_id=61)**

**11-I.Elyasian “probable failure mechanisms of Flexural and shear strengthening of RC beams”** Danesh Nama Monthly Technical and Professional magazine civil engineering of Isfahan province Vol142, PP 114-121 January 2007

<http://www.Nezammohandesiesfahan.ir> &Payam-e Mohandes VOL 33 PP 43-48- Sep 2006 & <http://www.Hamkelassy.com>

**12-I.Elyasian “Related concepts to FRP’S”** Payam-e Mohandes VOL 31 PP 38-43-May 2006 & <http://www.Hamkelassy.com>

**13-I.Elyasian “Different Shapes of FRP’s”** -e Mohandes VOL 32 PP 29-32-July 2006

**14- I.Elyasian “Polymer in Concrete”** Payam-e Mohandes Under review

**15-I.Elyasian “Geo Synthetics application in insulation of Concrete Reservoirs”**

**16- I.Elyasian “Industrial coating application for inhibition of penetration in concrete at corrosive environment”**

17-I. Elyasian “Destructive & Non Destructive Tests in Concrete applications for Evaluation Deboning Failures of FRP Strengthened System”14th European conference of earthquake Engineering 30 August to 3 September Ohrid2010, Macedonia”

18- H.Mehdad, I.Elyasian,” Sand Base Isolation in Seismic Rehabilitation And Strengthening of Masonry Structures”3th International Conference on Geo Information Technology for Natural Disaster Management and Reahbilitation19-20 Octobor2010,Chiang Mai Thailand

19-I.Elyasian, Seismic Rehabilitation and Strengthening of RC, 3th International Conference on Geo Information Technology for Natural Disaster Management and Reahbilitation19-20 Octobor2010, Chiang Mai Thailand

20-I.Elyasian, Lessons we learn from Previous Earthquakes in Construction, 3th International Conference on Geo Information Technology for Natural Disaster Management and Reahbilitation19-20 Octobor2010, Chiang Mai Thailand

21-I.Elyasian,Inspection and Vulnerability Assessment of Concrete and Steel bridges, Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz, Iran, 20-22 October 2010

22- I.Elyasian, Strengthening and Rehabilitation concrete walls and columns against fire, Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz, Iran, 20-22 October 2010

23-I.Elyasian, Safe Space and Shelter in Residential Environment (Safe Room) Construction with notice to Soil and Foundation Rehabilitation and Strengthening, Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz, Iran, 20-22 October 2010

24-I.Elyasian, Rehabilitation and Retrofit Structures for Explosive Loads, Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz, Iran, 20-22 October 2010

25-I.Elyasian, H.Meissami, Tunnel strengthening in role of resistant structure against explosion, Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz,

26-I.ELYasian, Bridge Rehabilitation Methods, 3th International Conference on Geo Information Technology for Natural Disaster Management and Reahbilitation19-20 Octobor2011, Chiang Mai Thailand

27-I.Elyasian, Light Weight Steel Frames From Cold Formed Sheets, [www.iransaze.com](http://www.iransaze.com)

28- I.Elyasian, High Performance Concrete, [www.iransaze.com](http://www.iransaze.com)

29- I.Elyasian, Application new Generation of Chillers in Building cooling, First Proceeding of chiller and Cooling Tower Tehran, July2010, Oil& Energy Magazine

30- I.Elyasian, Cooling Tower Operation, First Proceeding of chiller and Cooling Tower Tehran, July2010, Oil& Energy Magazine

31- I.Elyasian, Cooling Tower Operation, First Proceeding of chiller and Cooling Tower Tehran, July2010, Oil& Energy Magazine

32- I.Elyasian, Cooling Tower Structure of Combined Cycle Damavand Power Plant Constructed by Development silos Company of Iran, First Proceeding of chiller and Cooling Tower Tehran, July2010, Oil& Energy Magazine

33- I.Elyasian, Design and Construction of Ground and Air Water tanks and Reservoirs, [www.iransaze.com](http://www.iransaze.com)

34-I.Elyasian, Rehabilitation and Restoration Project Management, [www.iransaze.com](http://www.iransaze.com)

35-I.Elyasian, Earthquake Prediction with Radar Interference and Cloud analysis Technique, Civil Engineering and Rehabilitation Magazine, Iran [www.iransaze.com](http://www.iransaze.com)

36- I.Elyasian, Earthquake Reasons and Causes, [www.iransaze.com](http://www.iransaze.com)

37- I.Elyasian, Inspection and Rehabilitation Masonry and ancient Structures, [www.iransaze.com](http://www.iransaze.com)

38- I.Elyasian, Application Nano Technology in Civil Engineering, [www.iransaze.com](http://www.iransaze.com)

39- I.Elyasian, Light Weight Aluminum Structures and Modular Space Frames, [www.iransaze.com](http://www.iransaze.com)

40-I.Elyasian, Smart Building Management System, [www.iransaze.com](http://www.iransaze.com)

41- I.Elyasian, Chiller Role in Cooling Spaces, [www.iransaze.com](http://www.iransaze.com)

42-I.Elyasian, Optimization Fuel and Energy Consumption in Building, [www.iransaze.com](http://www.iransaze.com)

43- I.Elyasian, Fundamentals for Energy Management in Buildings with goal of Optimization Energy Consumption, [www.iransaze.com](http://www.iransaze.com)

44- I.Elyasian, New methods and Systems For Chilling and heating of buildings, , [www.iransaze.com](http://www.iransaze.com)

45- I.Elyasian, Acquaintance with Pump Types and other mechanical facilities and Equipments, , [www.iransaze.com](http://www.iransaze.com)

46- I.Elyasian, Application of Solar Energy in Building Industry, [www.iransaze.com](http://www.iransaze.com)

47- I.Elyasian, Suitable Ventilation System, [www.iransaze.com](http://www.iransaze.com)

48-I.Elyasian, Mechanical Facilities With goal of Optimization Energy consumption, [www.iransaze.com](http://www.iransaze.com)

49- I.Elyasian, Heating Generated from below Floor, [www.iransaze.com](http://www.iransaze.com)

50- I.Elyasian, New Energy Substitution for fossil Fuels, [www.iransaze.com](http://www.iransaze.com)

51- I.Elyasian, Dome Rehabilitation of Holy Shrine Imam Hassan Asgari in Iraq, [www.iransaze.com](http://www.iransaze.com)

52-I.Elyasian, Maintenance Methods Evaluation and Rehabilitation against Corrosion in water Reservoirs, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)

- 53- I.Elyasian, Existent Water Pipelines Retrofitting and increase Durability by using GRP Materials for Pipes, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)
- 54- I.Elyasian, Strategy For Controlling and Reciprocal against land sliding, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)
- 55- I.Elyasian, Seismic Vulnerability Assessment and Rehabilitation method for strengthening steel oil reservoirs and tanks, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)
- 56- I.Elyasian, Usage of insulation and water proofing sheets of GCL, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)
- 57- I.Elyasian, Pipelines and Lifelines Rehabilitation, 3th Iranian Pipe and Pipelines Conference 24,25 May 2011, Tehran, Iran, [www.iransaze.com](http://www.iransaze.com)
- 58- I.Elyasian, Passive Defense Strategy in Rehabilitation and Strengthening, [www.iransaze.com](http://www.iransaze.com)
- 59- I.Elyasian, Tall Building Structural Evaluation System with investigation PETRONAS Tower in Malaysia, [www.iransaze.com](http://www.iransaze.com)
- 60- I.Elyasian, Application Steel Fiber Concrete increasing Dynamic Capacity and Structural Properties and Rehabilitation with Rusted Iron Factory Particles and KFRP, , 9th Symposium High Performance Concrete, Christchurch ,New Zealand 9-11 August 2011 [www.iransaze.com](http://www.iransaze.com)
- 61- I.Elyasian, Wind Influence on Structures, [www.iransaze.com](http://www.iransaze.com)
- 62- I.Elyasian, Smart Materials and new Technologies, 9th Symposium High Performance Concrete, Christchurch, New Zealand 9-11 August 2011
- 63- I.Elyasian, Rehabilitation with Nano Technology, 9th Symposium High Performance Concrete, Christchurch, New Zealand 9-11 August 2011
- 64- I.Elyasian, Bridge Construction Methods on basis of Rehabilitation and Seismic Retrofitting, [www.iransaze.com](http://www.iransaze.com)
- 65- I. Elyasian, Bridge Strengthening and Rehabilitation Methods, [www.iransaze.com](http://www.iransaze.com)
- 66- I.Elyasian, Bridge Seismic Retrofitting with Dissipation Energy system, [www.iransaze.com](http://www.iransaze.com)
- 67- I.Elyasian, Bridge Seismic Rehabilitation and Protect against Corrosion, [www.iransaze.com](http://www.iransaze.com)
- 68- I.Elyasian, Methods and Strategies for Bridge Rehabilitation and Seismic Retrofitting, [www.iransaze.com](http://www.iransaze.com)
- 69- I.Elyasian, Bridge Structural Health Monitoring, [www.iransaze.com](http://www.iransaze.com),
- 70- I.Elyasian, Dampers Roles and Effects in Rehabilitation By Energy Dissipation, , [www.iransaze.com](http://www.iransaze.com)
- 71- I.Elyasian, Energy Dissipation and Absorption with Seismic Base Isolation in Strengthening and Rehabilitation Structures, [www.iransaze.com](http://www.iransaze.com)
- 72- J. Motamed, A.R.Jahan Pour , I.Elyasian, M.A.Jahan Pour, Fire Engineering Bases On Performance in Steel and Composite Structures, First Symposium in Safety of Structures Against Fire, October 2009, Sharif University , Tehran

## **Work Experiences & Fields**

A- 6 months as supervisor from consultant Hexa for controlling contractor engineering company shahr o kar in construction retaining wall of Shahid Kharazi free way, its bands (lanes) & its piles with bridges decks in upper level junction at 2001

B- 1.5 years in office of moghavemsazan Engineering Company as Designer of RC & Steel structures & Technical investigation At (design 12 RC structures frame and 20 steel structure stories) 2002-2004

C- 6 months for construction foundation fences & Epoxy Coating & its wall of laboratory in veterinary Bauru in 2004-2005

D-6 months for building health center (hospital) with 6 stories in Borojerd at 2005

E-2 year in military service as a supervisor engineer for controlling quality of construction, ,1-Applying Geo membrane and Geo Textiles for protect 8 reservoirs for prvention Corrosive leakage , 2- construction space frame with steel pipes and boxes and its foundations,3- 100 foundation of lighting piers, crosses for passing mechanical and electrical utilizations Below junctions, OLDP Pier 4-landscaping, RC roads(6 kms),pedestrian concrete pads (routes)Surrounding buildings & concrete blocks, back fill with gravel and crushed stone, compacting clay and excavation of agricultural soils 5- industrial and waste water man holes with its pipe lines, pit tank and reservoir for collection of sewage& its excavation, valve chambers for junction of pipe line in irrigation and agriculture consumption, pedestrian pads, canivo, rain water collections, grating 6- pipe racks 7-construction3 stories steel frame, exterior and environmental walls with bricks and Alco bands ,3D and sandwich panel (composites sheet)its roof plastic fume joist 8- CCTV boxes for closed current cameras (250 numbers) and its polyethylene pipes(10 kms),9- Industrial Frame, making floor with smooth concrete, Mono rail for movement of Crane, 10-cement silos(stuck)installation with its foundation

and pedestals 11-industrial coating ,Installation of Anti Acid Tile in floor and walls, insulation by bituminous and Isogam or pvc laminates ,12- small pool for collecting waste water of floor 13- welding process inspector ,14-investigation of statements declared by contractors . . . 15- time sheets & project controller in isfahan 2006-2008

F-2008-2010 Work In IOPTC(Iranian Oil Pipe lines and Tele Communication)

G- Designer and Supervisor in Taghestan Zende Rood Consultant Company 2010-2011

H- Tutor In Iran Universities Such As Islamic Azad University (IAU.ac.ir), Ashrafi Esfahani, Danesh Pajooan, Jihad Dnaeshaghi Sanati (JIUT.AC.IR) in Courses Like Concrete Technology, Construction Methods, Mechanic of material, Structure, Dynamic, earthquake, masonry

Structures , . . . 2008-2011

Computer & Programming Skill

Experience with

- SAP –ETABS-SAFE2000 Related to CSI
- ANSYS
- MATLAB
- WORD-EXCELL-PowerPoint
- Auto cad
- Micro soft project (MSP)