

In the name of God
Curriculum Vitae (CV) & Resume
Dr. Hamidreza Ashrafi, PhD, Civil Engineer,
Full Time and Definitive Official Member of Faculty
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1. Personal

1.1. Birth: 1957, Iran

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2. Educations

2.1. “Bachelor of Science in Civil Engineering” and “Master of Science in Civil Engineering, Structural Engineering”, Faculty of Engineering, University of Tehran, Tehran, Iran, September 1988.

2.2. PhD in Civil Engineering, Structural Engineering,

1) Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran,

2) Date of Defense of PhD Dissertation: December 2007.

3) Title of PhD Dissertation: Chloride Ion Diffusion Modelling of Concretes Containing Silica Fume, Based on Experimental Results.

4) Supervisor of PhD Dissertation: Professor Ali Akbar Ramezaniipoor,

4-1) Winner of the Concrete Scientist of the Year Award from the UK (2007)

4-2) Winner of the American Concrete Institute (ACI) Outstanding Concrete Scientist Award (2009),

4-3) Visiting Professor, at University of Ottawa, Canada (1992-1993), Yamaguchi University, Japan (1999-2000), University of Toronto, Canada (2007-2008)

3. Languages

3.1. Persian (Farsi), English, and also: Arabic, German, French, Spanish, and Russian

4. Software and computer skills and abilities

4.1. Conventional General & Specialized Software

5. Academic, Research, and Executive Responsibilities and Records

Note: This section only includes “research responsibilities and research performance records,” and does not include research activities. Research Activities Have Been Presented in the Following Sections

5.1. Razi University, Kermanshah, Iran

- 1) Full Time and Definitive Official Faculty Member of Razi State University, Faculty of Engineering, Department of Civil Engineering, Since 1989.
- 2) **“Founder”, “Responsible for Setting Up”** and then **“The First Head”** of **“The Faculty of Engineering”**, Iran, February 1989
- 3) Director of the Civil Engineering Department (For Two Times), 1993-1997.
- 4) Vice-Chancellor for Education, Research and postgraduate education of the Faculty of Engineering, 1991-1993
- 5) Member of the Selected Committee of the Faculty of Engineering, for the Promotion of Faculty Members, 2001-2015.
- 6) Head of the Library of the Faculty of Engineering, 1992-1997, and also then 2007 and 2008.
- 7) Member of “The Book Printing and Publishing Council of the University”, 2010-2018.
- 8) Selected as Top Researcher, Civil Engineering Department, Razi University, Kermanshah, Iran, December 2013.

5.2. “Razi University” and “Kermanshah Governorate”, Kermanshah, Iran

- 1) Secretary of “The Kermanshah Province Water Research Commission”, 1994-1997.
- 2) Chairman of the “Building and Construction Industry Committee” of the “Kermanshah Province Industry Research Commission”, 1994-1997.

5.3. Amir Kabir University of Technology (Tehran Polytechnic), Iran,

- 1) Visiting Assistant Professor of “Bachelor of Science Courses in Civil Engineering”, Faculty of Civil and Environmental Engineering, 2001-2005.
- 2) Visiting Assistant Professor of “Master of Science Courses in Civil Engineering”, Faculty of Civil and Environmental Engineering, Department of Engineering and Construction Management, 2009-2014.
- 3) Member of the “Concrete Technology Research Group” at “Concrete Technology and Durability Research Center”, 2002-2013.

4) Visiting and Associate Member of the “Institute of Structures and Earthquakes”, since 2015

5) Visiting and Associate Member of “Earth and Civil Engineering Research Institute” in the “Structural Engineering, Earthquake Engineering, Construction Engineering, and Construction Management” and “Concrete Technology and Durability” Departments, Since 2015.

5.4. Iranian Society of Civil Engineers (ISCE)

1) Main Member of the Board of Directors (for Three Periods), 2007-2009, 2011-2013, and 2015-2017

2) Main Inspector (for Two Periods), 2009-2011 and 2013-2015

3) Director of Public Relations and International Affairs”, 2000-2016.

4) Chief of Provincial Affairs”, 2000-2019.

5.5. Asas Quarterly (Scientific Research Journal of the Iranian Society of Civil Engineers), Tehran, Iran,

1) Scientific Editor, 1990-2007

2) Internal Director, 1990-2007

3) Editor in Charge, Since 2024

5.6. “The Ministry of Roads and Urban Development”, Tehran, Iran.

1) Head of “The Research Department” of “The Office of Safe Structures and the Shelters Affairs Department”, 1987-1988.

2) Member of the “Specialized Committee for the Compilation” of the “Ninth Section of the Iranian National Building Regulations (Design and Construction of Reinforced Concrete Buildings)”, in Three Consecutive Editions: 2006, 2009, and 2013.

3) Level One “License to Work as a Civil Engineer”, in All of The Competencies of “Calculations, Supervision, Construction Execution, and Education”, Issued by the Ministry

5.7. “Iranian Planning and Budget Organization” and “Road, Housing and Urban Development Research Center”, Tehran, Iran

1) Member of “Specialized Committee for Compilation of Iranian Concrete Code (ICC)”, 2021 Edition.

5.8. The Building Engineering System Organization of Tehran Province”, Iran,

1) “Official and Qualified Professional Teacher” of “The Building Engineering System Organization of Tehran Province”, for Teaching “Engineer Members of the Building Engineering System Organization of Tehran Province”, Since 2005.

2) Member of the Election Executive Board” of “The Building Engineering System Organization of Tehran Province”, Tehran, Iran, 2006.

5.9. The Building Engineering System Organization of Kermanshah Province)”,

1) “Editor-in-Chief” and “Secretary of The Writers Council” of “Bisotun (Non-Periodical Scientific and Specialized Journal of “The Building Engineering System Organization of Kermanshah Province)”, Kermanshah, Iran, 1991-2007.

2) Member of the “Specialized Committee for Reviewing and Controlling Construction Drawings and Calculations, prepared by Engineer Members of the Kermanshah Province Construction Engineering System Organization” 1992-1997.

3) “Election Supervisory Council Responsible” of “The Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, 1997.

5.10. The Iranian Engineering Knowledge Educational Institute”, Tehran, Iran,

1) Founder, 2005.

2) Managing Director, Since 2005

3) Member of the Board of Directors”, 1991-1995

4) Chief Executive Officer, Since 2005

5) Education Manager and Director of Educational Affairs, Since 2005

6) Senior Lecturer

7) Organizer of Specialized Seminars, since 2007

5.11. The Design and Structure Consulting Engineers Company, Kermanshah, Iran,

1) Founder, 1991

2) Managing Director, Since 2005

3) Member of the Board of Directors”, 1991-1995

4) Structural Designer and Calculator Engineer” 1991-1995

5) Project Manager”, 1991-1995

5.12. Center for Justice Experts, Iran

1) Selected Academic and Professional Member” for “The Scientific Interviewing” the “Official Experts of Justice” All Over the Country”, Iran, 2005-2007.

5.13. Various Iranian ministries and organizations",

1) Designer of Questions and Tests for Civil Engineering Specialty Exams, Since 1997.

6. Diverse Professional and Engineering Backgrounds and Experiences

6.1. In Various Factors of Construction Projects

- 1) Employer, Client
- 2) Consultant,
- 3) Contractor.

6.2. In different fields of work

- 1) Towns
- 2) Complexes
- 3) Different Types of Buildings
- 4) Roads,
- 5) Maritime Affairs,
- 6) and some other Fields.

6.3. In various positions, responsibilities and positions in projects

- 1) Project manager in construction projects
- 2) Head of the Employer's Technical and Construction Office
- 3) Secretary of the Employer's (Client's) Technical Council
- 4) Project Manager and Project Director, in Employer System
- 5) Founder of Consulting Engineering Company
- 6) Member of the Board of Directors of Consulting Engineering Company
- 7) Managing Director of Consulting Engineering Company
- 8) Structural Designer and Calculator Engineer
- 9) Senior Structural Consultant Engineer
- 10) Supervising Engineer and Resident Engineer, at Consulting Engineers Company
- 11) Project Manager, at Consulting Engineers Company
- 12) Senior and Principal Consultant in Concrete, at Construction Projects,
- 13) Senior and Principal Consultant, for "Excavation and Construction of Retaining Structures for Excavations and Trenches", at Construction Projects
- 14) Head of Project Consultants Group Team

Head of “The Study and Design Team at construction projects”, in Consulting Engineers Company

15) Construction Site Engineer, in Contractor Companies

16) Manager of the Contractor’s Technical Office, in Contractor Companies

17) Project measurement and estimation manager, in Contractor Companies

18) Chairman of “The Project measurement and estimation Unit”, in Contractor Company

19) Chairman of “The Preparing the Project Status Report Unit”, in Contractor Company

20) Founder of Specialized Engineering Education Company

21) Managing Director of Specialized Engineering Education Company

7. Educational and Teaching Backgrounds and Records

7.1. Teaching in the Bachelor of Science (BS) Degree of Civil Engineering, Razi University, 1988-2018.

7.2. Teaching in the Bachelor of Science (BS) Degree of Architectural Engineering, Razi University, 2014-2018.

7.3. Teaching in the Master of Science (MS) Degree of Civil and Structural Engineering, Razi University, 2007-2018.

7.4. Teaching in the Doctorate Degree of Civil and Structural Engineering, Razi University, 2012-2018.

7.5. Teaching at the Bachelor of Science (BS) Degree of Civil Engineering, Amir Kabir University of Technology, 2001-2006.

7.6. Teaching at the Master of Science (MS) Degree of Civil Engineering and Construction Management, Amir Kabir University of Technology, 2000-2016.

7.7. Teaching at the Bachelor of Science (BS) Degree of Civil Engineering, Islamic Azad University, Kermanshah Branch, 1993-2006.

7.8. Teaching at the MS Degree of Civil and Structural Engineering, Islamic Azad University, Kermanshah Branch, 2016.

7.9. Teaching “Mathematic Courses” at “Islamic Azad University”, “Payam Noor University”, “University of Applied Sciences”, “Higher Education Center for Water and Electricity Industry”, “University of Medical Sciences”, “Islamic Azad University” and Some Other Universities in Iran, 1991-2000.

- 7.10.** Continuous and Extensive Teaching of “Training Courses” in Order to “Upgrading the Employment Permit Base of Civil Engineers”, in Tehran and Almost All of the Provinces of Iran, Iran, since 2005.
- 7.11.** Teaching “Professional and Mandatory Engineering Training Courses” for “All Engineers Working in the “Ministry of Housing and Urban Development (New Name: Ministry of Roads and Urban Development)”, All Over Iran, 2000-2006.
- 7.12.** Teaching “Professional and Mandatory Engineering Educational Courses” for “All Engineers Working in The National Renovation, Development and Equipment Organization of Schools, at All Over Iran”, Tehran, Iran, 2001-2005.
- 7.13.** Teaching “Professional and Mandatory Engineering Educational Courses” for “HSE Technical Inspector Engineers”, Working in the “Ministry of Labor and Social Affairs (New Name: Ministry of Cooperation, Labor and Social Welfare) at All Over Iran”, “Center of Research and Training for Technical Protection and Occupational Health”, Tehran, Iran, 2002-2004.
- 7.14.** Organizing and Presenting “Scientific and Specialized Conferences and Seminars”, All Over Iran, for “Universities, Building Engineering System Organizations, and Various Organizations and Ministries”, Iran, 2001-2013.
- 7.15.** Teaching “Various Professional and Specialized Training Courses for Engineers”, at “Building and Housing Research Center (BHRC), (New Name: Road, Housing and Urban Development Research Center)”, “National Land and Housing Organization”, “Building and Urban Development Institution”, “Housing Foundation of Iran”, “National Planning and Budget Organization”, and “Iranian Society of Consulting Engineers”, All Over Iran, Since 2001.
- 7.16.** Selected as Top Professional Lecturer at the “Building and Housing Research Center (BHRC)”, “(New Name: Road, Housing and Urban Development Research Center)”, for Three Consecutive Years, Tehran, Iran, 2012-2014.
- 7.17.** Teaching for “Justice Experts in Civil Engineering Affairs for All Over Iran”, Passed the Proficiency Exam”, Tehran, Iran, 2005.
- 7.18.** Oral Interview with “Justice Experts in Civil Engineering Affairs, for All Over Iran”, Passed the Proficiency Exam”, for More Than 8000 People, Tehran, Iran, 2005-2007.
- 7.19.** Teaching in “Preparation Courses” for “Professional Entrance Exams to Obtain Employment Permits”, in Tehran and Some Provinces of Iran, 2011 to 2024.

7.20. Courses, have been taught, at University BS Degree (were mentioned above), so far:

- 1) Technical and Building Drawing
- 2) Building and Construction Materials
- 3) Concrete Technology
- 4) Statics
- 5) Strength of Materials (Solid Mechanics)
- 6) Masonry Structures
- 7) Seismic Design of Masonry Structures
- 8) Design of Reinforced Concrete Structures (1)
- 9) Design of Reinforced Concrete Structures (2)
- 10) Design of Steel Structures (1)
- 11) Design of Steel Structures (2)
- 12) Building Construction (Steel and Reinforced Concrete Structures)
- 13) Building Construction Workshop
- 14) Environmental Engineering
- 15) Design of Buildings Against Earthquakes
- 16) Concrete (Technology) Laboratory
- 17) General Mathematics (1)
- 18) Surveying
- 19) Surveying Operations
- 20) Specialized Language of Civil Engineering (English Language)
- 21) Specialized Civil Engineering Project
- 22) Fundamentals of Construction Management
- 23) Systems Engineering
- 24) Loading on Buildings and Structures
- 25) Project Measurement and Estimation
- 26) Excavation and Retaining Structures
- 27) Repair and Restoration of Buildings
- 28) National Iranian Building Regulations
- 29) Mathematics (1)

7.21 University Courses, have been taught, in Postgraduate (Master and PhD Degree), were mentioned above, so far:

- 1) Stability of Structures (Structural Stability)
- 2) Seismic Design of Structures
- 3) Advanced Concrete Technology

7.22. Professional In-Service Special Courses, Taught to Working Engineers, to Improve Their Engineering Knowledge (in the Civil Engineering System Organization of Iran, and Some Ministries and Organizations), Were Mentioned Above, so far:

- 1) Construction Materials and Products
- 2) Reinforced Concrete Buildings Construction
- 3) Supervision of Reinforced Concrete Buildings Construction
- 4) Excavation, and Retaining Structures Construction
- 5) Supervision of Excavation, and Retaining Structures Construction
- 6) Special Concretes, and Concreting in Special Conditions
- 7) Restoration, Repair and Retrofitting Structures
- 8) Minimum Design Loads, Applying on Buildings
- 9) Masonry Buildings
- 10) Construction Management

8. Membership in the Iranian Scientific Societies and Associations

8.1. Iranian Society of Civil Engineers (ISCE)

8.2. Iranian Society of Road and Building Engineers

8.3. Iranian Society of Building Structural Designer Engineers

8.4. Iranian Earthquake Engineering Association

8.5. Iranian Concrete Institute (ICI)

8.6. Iranian Geotechnical Society (IGS), and Iranian Soil Mechanics and Foundation Engineering Society

8.7. Iranian Society for Rock Mechanics (IRSRM)

8.8. Iranian Hydraulic Association

8.9. Alumni Association of the Faculty of Engineering University of Tehran

8.10. Alumni Association (Society of Students) of Amir Kabir University of Technology (Tehran Polytechnic)

9. Academic Staff and Member of the Scientific Committee of National and International Scientific Conferences and Congresses

9.1. “The First Scientific-Specialized Conference of The Iranian Society of Road and Building Engineers, Tehran, Iran”, October 1999.

- 9.2.** “The Third International Conference on Concrete”, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, May 2000.
- 9.3.** “The First Conference on Strengthening and Improvement of Structures”, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, May 2002.
- 9.4.** “The First International Conference on Seismic Retrofitting”, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, May 2006.
- 9.5.** “The Third International Conference on Bridges (Seismic Rehabilitation of Bridges)”, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, June 2008.
- 9.6.** “The First National Conference on Safety, Health and Environment (HSE)”, Ministry of Labor and Social Affairs, Tehran, Iran, January 2009.
- 9.7.** “The Eighth International Congress on Civil Engineering”, Shiraz, University, Shiraz, Iran, May 2009.
- 9.8.** “The First National Iranian Conference of Concrete”, Iranian Concrete Institute (ICI), Tehran, Iran, October 2009.
- 9.9.** “The Second National Iranian Conference of Concrete”, Iranian Concrete Institute (ICI), Tehran, Iran, October 2010.
- 9.10.** “The Third National Iranian Conference of Concrete”, Iranian Concrete Institute (ICI), Tehran, Iran, October 2011.
- 9.11.** “The Second National Conference on Construction Engineering and Management”, Amir Kabir University of Technology (Tehran Polytechnic), Campus Bandar Abbas, Bandar Abbas, Iran, May 2012.
- 9.12.** “The Fourth National Iranian Conference of Concrete”, Iranian Concrete Institute (ICI), Tehran, Iran, October 2012.
- 9.13.** “The First National Conference of Demolition Engineering in the Building Construction Industry”, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, October 2012.
- 9.14.** “The Fifth National Iranian Conference of Concrete”, Iranian Concrete Institute (ICI), Tehran, Iran, October 2013.
- 9.15.** “The Second National Iranian Conference of Geotechnical Engineering”, Iranian Geotechnical Society (IGS), Kermanshah, Iran, October 2014.
- 9.16.** “The First National Conference on Soil Mechanics and Foundation Engineering”, Shahid Rajaei Teacher Training University (SRTTU), Tehran, Iran, December 2014.
- 9.17.** “The Fourth International Conference on Bridges”, Amir Kabir University of Technology, Tehran, Iran, February 2015.

9.18. “The Second National Iranian Conference on Modern Computational Techniques and Optimization in Civil Engineering”, Islamic Azad University, Saqqez Branch, Saqqez City, Kurdistan Province, Iran, December 2017.

9.19. “The Fifth International Conference on Bridge (Bridge Health Monitoring, Creative Ideas, New Materials and New Technologies in Bridge Construction), Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, December 2019.

10. Books, Published

10.1. “Design of Advanced Reinforced Concrete Design”, “N. Krishna Raju (Author)”, Translated from English to Persian, “**Hamidreza Ashrafi (Translator)**”, “Mehdi Ghalibafian «Deceased Associated Professor of Tehran University» (Scientific Editor)”, Razi University Press, ISBN: 96-4555-100-5, Kermanshah, Iran, First edition: 1995.

10.2. “Strength of Materials, Part II: Advanced”, “S. P. Timoshenko (Author)”, Translated from English to Persian, “**Hamidreza Ashrafi (Translator)**”, “Selected as: The Book of the Year 1991, in Iran”, Nopardazan Publication Co., ISBN: 96-4700-634-9 & 96-4975-012-6, Tehran, Iran, First Edition: 2001.

10.3. “NEHRP Guidelines for the Seismic Rehabilitation of Buildings, Foundations and Geotechnical Hazards (Systematic Rehabilitation), Vulnerability Assessment and Foundation Improvement Methods”, “FEMA 273 Chapter 4”, “FEMA (Author)”, Translated from English to Persian, **Hamidreza Ashrafi (Translator)**, Published by “The Iranian Society of Civil Engineers” and “Amir Kabir University of Technology Press, ISBN: 96-4463-142-0, Tehran, Iran, First Edition: 2002.

10.4. “Concrete (Microstructure, Properties, and Materials)”, (A Textbook of “Advanced Concrete Technology” in MSCE and PhD Degree of Civil Engineering), “P. Kumar Mehta and Paulo J. M. Monteiro (Authors)”, Translated from English to Persian, Translators: “Aliakbar Ramezaniapour (Professor of Civil Engineering Department, Amir Kabir University of Technology), Parviz Ghoddousi (Professor of Civil Engineering Department, Iran University of Science and Technology), and Ismaeil Ganjian (Professor of Civil Engineering Department, Khajeh Nasiruddin Toosi University of Technology (KNTU), Iran and Coventry University, UK) (Translators)”, “**Hamidreza Ashrafi (Razi University) (Scientific Editor)**”, Amir Kabir University of Technology Press, ISBN: 978-96-4463-258-7, Tehran, Iran, First Edition: 2004.

10.5. “Engineering Safety and Ethics”, Translated from English to Persian, **“Hamidreza Ashrafi (Translator)”**, “One of the Textbooks and Reference Books for Holding «Professional Engineering (PE) Courses in Iran»”, “Ministry of Science, Research and Technology”, Tehran, Iran, 2006.

10.6. Ashrafi, Hamidreza (Author), “Principles and Fundamentals of Excavation and Retaining Structures” (in Persian Language), “As One of the Educational Topics, Also as a Reference Book and a Textbook” of “The Office for the Compilation, Promotion and Propagation of Iranian National Building Regulations (INBR), “Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, International Standard Book Number (ISBN): 96-4993-503-7, Tehran, Iran, First Edition: 2006.

Note: This book was “the first book in this field in Iran”, specially as “An Educational and Professional Boo” for “Teaching in Universities” and “Teaching in Training Courses for Engineers”, which “Greatly Reduced Accidents and Human Casualties, in Construction Projects, throughout Iran”.

10.7. “Javad Farid (Scientific Editor) and **Hamidreza Ashrafi (A Member of the Group of Authors)**, et al.”, “Building and Construction Materials (Memoir of Deceased Excellent Professor Ahmad Hami) (in Persian Language)”, Tehran University Press, **ISBN:** 96-4035-281-0, Tehran, Iran First Edition: 2006.

10.8. “Ninth Topic of the Iranian National Building Regulations (Design and Construction of Reinforced Concrete Buildings), *Second Edition*”, (in Persian Language), “Alireza Rahaii, (Chaiman of «The Academic Staff» and «The Specialized Committee for Compiling»” and **“Hamidreza Ashrafi (A Member of the Staff and the Committee)** et al.”, “The Office for the Compilation, Promotion and Propagation of Iranian National Building Regulations, Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, **ISBN:** 96-4758-857-7, Tehran, Iran, 2006.

10.9. “Excavation in Buildings (Educational Video)”, (in Persian Language), “Abolfazl Eslami and **Hamidreza Ashrafi (Scientific Advisors)**”, “Abolfazl Maleki Arsi (Technical Producer)”, Published by: “The Office for the Compilation, Promotion and Propagation of Iranian National Building Regulations, Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, Tehran, Iran, 2008.

10.10. “Ninth Topic of the Iranian National Building Regulations (Design and Construction of Reinforced Concrete Buildings), *Third Edition*”, (in Persian Language), “Alireza Rahaii (Chaiman of «The Academic Staff» and «The Specialized Committee for Compiling»” and **“Hamidreza Ashrafi (A**

Member of the Staff and the Committee), et al.”, “The Office for the Compilation, Promotion and Propagation of Iranian National Building Regulations, Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, ISBN: 978-96-4758-897-3, Tehran, Iran, 2009.

10.11. “Rahmat Madandoost and Mohammad Kazem Hojjati (Authors)”, “Civil Engineering Dictionary (English to Persian)”, “**Hamidreza Ashrafi (Scientific Editor)**”, Guilan University Press, ISBN: 978-60-0153-004-3, Rasht, Iran, 2010.

10.12. “*Guide to the Third Edition of Ninth Topic of the Iranian National Building Regulations (Design and Construction of Reinforced Concrete Buildings)*” (in Persian Language), “Alireza Rahaii (Chairman of the «Academic Staff» and the «Specialized Committee for Compiling the Ninth Topic of the Iranian National Building Regulations»)”, and “**Hamidreza Ashrafi (A Member of the Staff and the Committee)**, et al.”, “The Office for the Compilation, Promotion and Propagation of Iranian National Building Regulations, Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, ISBN: 978-60-0301-024-6, Tehran, Iran, 2011.

10.13. “Ali Akbar Ramezaniapour, **Hamidreza Ashrafi** and Alireza Poorkhorshidi (**Authors**)”, “Chloride Ion Diffusion Model, and Predicting the Service Life of Normal Concretes and Concretes Containing Silica Fume, Exposed to Chloride Ion in the Persian Gulf Environment (Research Report)” (in Persian Language), “Building and Housing Research Center (BHRC) (New Name: Road, Housing and Urban Development Research Center) Press”, ISBN: 978-60-0113-058-8, Tehran, Iran, First Edition: 2011.

10.14. Hamidreza Ashrafi (Author), “Structural Calculations of Formworks for Concrete Members and Structure” (in Persian Language); Nopardazan Publication Co., ISBN: 978-96-4975-197-9, Tehran, Iran, First Edition: 2012.

10.15. Hamidreza Ashrafi (Author), “Concrete Technology, Concrete Mix Design, and Concrete Acceptance Criteria” (in Persian Language), Nopardazan Publication Co., ISBN: 978-96-4975-198-6, Tehran, Iran, First Edition: 2012.

10.16. “Ninth Topic of the Iranian National Building Regulations (Design and Construction of Reinforced Concrete Buildings), *Fourth Edition*”, (in Persian Language), “Alireza Rahaii, (Chairman of «The Academic Staff» and «The Specialized Committee for Compiling»)”, and “**Hamidreza Ashrafi (A Member of the Staff and the Committee)**, et al.”, “The Office for the Compilation, Promotion and Propagation of Iranian National Building

Regulations, Deputy of Housing and Building Affairs, Ministry of Housing and Urban Development”, ISBN: 978-96-4758-897-3, Tehran, Iran, 2013.

10.17. “Farid, Javad (Scientific Editor), and **Hamidreza Ashrafi (A Member of the Group of Authors)**, et al.”, “Building and Construction Materials” (in Persian Language), Tehran University Press, ISBN: 978-96-4036-490-1, Tehran, Iran, First Edition: 2013.

10.18. **Hamidreza Ashrafi** and Alireza Pooladkhan (**Authors**), “Smart Materials and Their Applications in Various Fields of Sciences and Engineering” (in Persian Language), Noavar Publication Co., Tehran, Iran, ISBN: 978-60-0168-175-2, First Edition: 2014.

10.19. **Hamidreza Ashrafi (Author)**, “Excavation and Retaining Structures (Special Edition for «Building Engineering System Examinations»)” (in Persian Language), Noavar Publication Co., ISBN: 978-60-0168-224-7, Tehran, Iran, First Edition: 2014.

10.20. **Hamidreza Ashrafi (Author)**, “Excavation and Retaining Structures (Exclusive Edition for «Special Courses to Upgrade the Employment Permit Base»)” (in Persian Language), Noavar Publication Co., ISBN: 978-60-0168-262-9, Tehran, Iran, First Edition: 2015.

10.21. “Iranian Concrete Code (ICC)”, (in Persian Language), “Mohsen Tadayyon, and Morteza Zahedi (Chairmans of «The Academic Staff» and «The Specialized Committee for Compiling»)”, and **Hamidreza Ashrafi (A Member of the Staff and the Committee)**, et al.”, “Road, Housing and Urban Development Research Center” and “The Planning and Budget Organization of Iran”, ISBN: 978-62-2203-476-4 (For Five-Volume Set of the Book), Tehran, Iran, 2021.

10.22. “Iranian Concrete Code (ICC)”, (in Persian Language), “Mohsen Tadayyon, and Morteza Zahedi (Chairmans of «The Academic Staff» and «The Specialized Committee for Compiling»)”, and **Hamidreza Ashrafi (A Member of the Staff and the Committee)**, et al.”, “Road, Housing and Urban Development Research Center” and “The Planning and Budget Organization of Iran”, ISBN: 978-62-2203-675-1 (For Volumes 1 & 2), , Tehran, Iran, 2023

11. Articles (Papers), Published in ISI, SCOPUS, and Scientific Research Journals

11.1. **H. R. Ashrafi** and A. A. Ramezaniapour, “Service Life Prediction of Silica Fume Concretes”, (in English Language), International Journal of Civil Engineering, Iran, Vol. 5, No. 3, December 2007.

- 11.2. Hamid Reza Ashrafi**, Mostafa Jalal, and Karim Garmsiri, “Prediction of Load-Displacement Curve of Concrete Reinforced by Composite Fibers (Steel and Polymeric) Using Artificial Neural Network”, (in English Language), Journal of Expert Systems with Applications, No. 37, Issue 12, December 2010.
- 11.3. Hamidreza Ashrafi** and Sirvan Taherpour, “Investigation of the distribution of earthquake forces in tall structures with a dual lateral resistance system (in Persian Language)”, Asas Scientific Research Quarterly, Year 15, Issue 35, 2012.
- 11.4. Hamid Reza Ashrafi**, Hossein Behsan, and Neda Esmaeili, “Comparison of Analytical and Experimental Results of Ductility Factor in Reinforced Concrete Structures”, (in English Language), Life Science Journal, Acta Zhengzhou University Overseas, China, No. 9 (4), 2012.
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European Code (Eurocode 4), Regarding the Design of Composite Columns Buried in Concrete”, (in Persian Language), “6th Annual Iranian National Conference of Concrete, Iranian Concrete Institute (ICI)”, Tehran, Iran, October 2014.

13.61. Saman Tahmasbi and **Hamidreza Ashrafi**, “Investigation of the Effectiveness of the Spectral Acceleration at fundamental period [$S_a(T_1, \xi = 5\%)$] Intensity Parameter for Multi-Degree-of-Freedom Structures in Incremental Dynamic Analyses (IDA) within the Range of Linear Material Behavior”, (in Persian Language), “First National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran (Conference National id: DCEAEM01)”, Holder and Organizer: “Golestan University”, in Collaboration with the “Oxford Cert Universal Academy, England”, and the “Tadbir Bana Civil Engineering Company”, Gorgan, Iran, December 2014.

13.62. Saeed Sabouri Qomi, **Hamidreza Ashrafi** and Sima Mohammadi, “Comparison of the Performance of Diagonal Cross- Shaped Buckling Restrained Braces (BRBs) in Frames”, (in Persian Language), “Second International Congress on Structures, Architecture, and Urban Development”, Tabriz, Iran, December 2014.

13.63. **Hamidreza Ashrafi** and Yousef Yousefi, “Investigation of the Behavior of a Composite Column Embedded in Concrete, Under Eccentric Load”, (in Persian Language), “Second International Congress on Structures, Architecture, and Urban Development”, Tabriz, Iran, December 2014.

13.64. **Hamidreza Ashrafi** and Somayyeh Yaghouti, “Investigation of the Deformation Behavior of a Diaphragm Wall and its Influencing Factors”, (in Persian Language), “Second International Congress on Structures, Architecture, and Urban Development”, Tabriz, Iran, December 2014.

13.65. **Hamidreza Ashrafi**, Yousef Yousefi and Somayyeh Yaghouti, “Investigation of Shear Strengthening of Reinforced Concrete Beams with FRP, Based on Different Codes”, (in Persian Language), “Second International Congress on Structures, Architecture, and Urban Development”, Tabriz, Iran, December 2014.

13.66. **Hamidreza Ashrafi** and Sajjad Maleki, “Investigation of Cracking Phenomenon in Concrete, and Evaluation of Cracking Mechanism in Concrete Dams”, (in Persian Language), “The First National Conference on Civil Engineering and Sustainable Development of Iran”, Organizers: “Center for

Strategies for Achieving Sustainable Development” and “Mehr Arvand Higher Education Institute”, Tehran, Iran, December 2014.

13.67. Hamidreza Ashrafi, Mohammad Moein Akbari and Hamed Haseli, “Investigation of Problematic Soils, Focusing on Divergent Soils”, (in Persian Language), “National Iranian Conference on Civil Engineering, Urban Planning and Sustainable Development”, “Farzin Sustainable Development Center of Science and Industry”, Tehran, Iran, February 2015.

13.68. Hamidreza Ashrafi and Mohammad Moein Akbari, “Principles of Crisis Management, and Comprehensive Requirements of Crisis Command Centers, for Achieving Integrated Crisis Management”, (in Persian Language), “National Iranian Conference on Civil Engineering, Urban Planning and Sustainable Development”, “Farzin Sustainable Development Center of Science and Industry”, Tehran, Iran, February 2015.

13.69. Hamidreza Ashrafi, Seyyed Ali Hassanzadeh and Seyyedeh Faezeh Hassanzadeh, “Using Recycled Waste as Aggregate for Producing Recycled Concrete with Different Strengths”, (in Persian Language), “The First National Congress of Iran’s New Technologies, with the Aim of Achieving Sustainable Development”, Organizers: “Center of Strategies for Achieving Sustainable Development” and “Mehr Arvand Higher Education Institute”, Tehran, Iran, February 2015.

13.70. Hamidreza Ashrafi, Seyyed Ali Hassanzadeh and Mohammad Mehdi Bagheri, “Applied Methods of Using Seawater, as Required Water in Concrete Mixing Design”, (in Persian Language), “The First National Congress of Iran’s New Technologies, with the Aim of Achieving Sustainable Development”, Organizers: “Center of Strategies for Achieving Sustainable Development” and “Mehr Arvand Higher Education Institute”, Tehran, Iran, February 2015.

13.71. Mehrdad Bayat and Hamidreza Ashrafi, “Comparison of Displacement Values Obtained from the Finite Element Method with Measured Values for Compressive and Tensile Soil Anchors”, (in Persian Language), “The Second National Iranian Conference on Applied Researches in Civil Engineering, Architecture and Urban Management”, Public University of Applied Sciences, Tehran, Iran, March 2015.

13.72. Hamidreza Ashrafi, Sasan Bashiri and Seyyed Ali Hassanzadeh, “Evaluation of Strength and Elastic Properties of Polymer Concrete, with Different Volumes of Volcanic Tuffs as Fillers”, (in Persian Language), the “Annual International Conference on Civil Engineering, Architecture and

Urban Planning”, “Kharazmi Institute of Science and Technology”, Shiraz, Iran, September 2015.

13.73. Hamidreza Ashrafi, Seyyed Ali Hassanzadeh and Jafar Chalabi, “Improvement of Design Regulations and Methods Related to Progressive Collapse in «General Services Administration (GSA) of USA» and «Department of Defense (DoD) in US Military Forces» Standards”, (in Persian Language), “The Annual International Conference on Civil Engineering, Architecture and Urban Planning”, Kharazmi Institute of Science and Technology, Shiraz, Iran, September 2015.

13.74. Hamidreza Ashrafi and Shahnaz Akbarabadi, “The Effect of Nanotechnology on Improving the Behavioral and Mechanical Properties of Concrete”, (in Persian Language), “Fourth National Iranian Conference on New Materials and Structures”, Yasuj University, Yasuj, Iran, November 2015.

13.75. Hossein Forouzesh, **Hamidreza Ashrafi**, Mojtaba Hosseini and Peyman Beiranvand, “The Effect of Earthquake Waves on the Fracture Mode of Glass Fiber Reinforced Plastic Pipes”, (in Persian Language), “International Conference on Science and Engineering (Conference National id: ICESCON01)”, Organizer: “Viera Capital Institute of Idea Managers (Modiran Ideh Pardaz Paytakht Viera Institute)”, Dubai, United Arab Emirates, December 2015.

13.76. Zahra Partovi and **Hamidreza Ashrafi**, “Progressive Collapse in Steel Structures equipped with Buckling Restrained Braces (BRBs) Due to the Removal of Corner and Middle Single Columns”, (in Persian Language), “Second National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran”, Holder and Organizer: “The Education and Research Group of Baroogostar Pars Engineering Company”, in Collaboration with “The Oxford Cert Universal Academy”, England, Gorgan, Iran, December 2015.

13.77. Hamidreza Ashrafi and Seyyed Ali Hassanzadeh, “Nonlinear Static Analysis of Reinforced Concrete Structures against Progressive Collapse, Considering Increasing Depth and Width of Beams Separately”, (in Persian Language), “Third International Congress of Civil Engineering, Architecture and Urban Development”, “Shahid Beheshti University”, Tehran, Iran, January 2016.

13.78. Marzieh-Sadat Moayyeri and **Hamidreza Ashrafi**, “Evaluation of the Mixing Design of Lightweight Non-Load-Bearing Concrete Blocks Containing Lightweight Expanded Clay Aggregate (LECA), and Its Effect on

Lightness and the Final Price of One Square Meter of Wall”, (in Persian Language), “Second Scientific Research Congress of New Horizons in the Field of Civil Engineering, Architecture, Culture and Urban Management of Iran”, “Association for the Development and Promotion of Fundamental Sciences and Technologies”, Tehran, Iran, February 2016.

13.79. Marzieh-Sadat Moayyeri and **Hamidreza Ashrafi**, “The Use of Lightweight Non-Load-Bearing Blocks Instead of Traditional Materials in Buildings, and Their Impact on Energy Consumption”, (in Persian Language), “Second National Iranian Conference on Energy and Sustainable Development”, “Islamic Azad University, Takestan Branch”, Takestan, Iran, February 2016.

13.80. **Hamidreza Ashrafi**, Seyyed Ali Hassanzadeh, Jafar Chalabi and Seyyed Mohammadreza Hashemi, “Assessment of Progressive Collapse in a Reinforced Concrete Building, and the Effect of Increasing Beam Dimensions on Reducing its Incidence”, (in Persian Language), “The Third International Conference on Applied Researches in Civil Engineering, Architecture and Urban Management”, “Khajeh Nasiroddin Toosi University of Technology (KNTU)”, Tehran, Iran, March 2016.

13.81. Zahra Partovi and **Hamidreza Ashrafi**, “Comparison of Progressive Collapse under the Effect of Column Removal in a Steel Frame Equipped with Buckling Restrained Cross-Shaped and Chevron-Shaped Braces”, (in Persian Language), “International Conference on Architecture, Urban Planning, Civil Engineering, Art and Environment; Future Horizons, Looking to the Past”, Holder and Organizer: “Permanent Secretariat of the Conference”, Tehran, Iran, March 2016.

13.82. Zahra Mohammadi and **Hamidreza Ashrafi**, “Investigation and Evaluation of the Effect of Slab on the Progressive Collapse Resistance of Reinforced Concrete Frame Structures”, (in Persian Language), “8th Annual National Iranian Conference of Concrete”, “Iranian Concrete Institute (ICI)”, Tehran, Iran, October 2016.

13.83. Zahra Mohammadi and **Hamidreza Ashrafi**, “Investigation of Chloride Ion Attack on Reinforced Concrete Columns under Progressive Collapse”, (in Persian Language), “8th Annual National Iranian Conference of Concrete, Iranian Concrete Institute (ICI)”, Tehran, Iran, October 2016.

13.84. **Hamidreza Ashrafi** and Zahra Mohammadi, “Evaluation of Different Mechanisms of Reinforced Concrete Structures, against Progressive Collapse under Different Column Removal Scenarios”, (in Persian Language), “Fourth

International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.85. Hamidreza Ashrafi and Zahra Mohammadi, “Laboratory Investigation of the Behavior of Reinforced Concrete Slab-Column, under progressive Collapse”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.86. Hamidreza Ashrafi and Zahra Mohammadi, “Investigation and Analysis of Buckling Behavior of Stiffener Plates in Steel Shear Walls”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.87. Hamidreza Ashrafi and Zahra Mohammadi, “Evaluation and Analysis of Post-Buckling Behavior of Thin Steel Shear Walls, Using Finite Element Method”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.88. Hamidreza Ashrafi and Zahra Mohammadi, “Comparison of Linear and Nonlinear Static and Dynamic Analyses of Progressive Collapse of Reinforced Concrete Frames”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.89. Saeed Sabouri Ghomi, Hamidreza Ashrafi and Sima Mohammadi, “Investigation of the Performance of the Cross-Shaped Buckling Restrained Bracing”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.90. Yahya Adinefar, Hamidreza Ashrafi and Seyyed Shahab Hassaninasab, “Investigation of the Effect of Nano-Silica on the Compressive and Tensile Strength of Roller Compacted Concrete for Road Pavement (RCCP)”, (in Persian Language), “2nd National Conference on Concrete Surfaces”, “Road, Housing and Urban Development Research Center”, Tehran, Iran, May 2017.

13.91. Hamidreza Ashrafi and Razieh Souri, “Study and Investigation of Behavioral Parameters of Cast Modular Ductile Bracing (CMDDB), with

Prefabricated Steel Members”, (in Persian Language), “International Conference on Civil Engineering, Architecture and Urban Planning of Contemporary Iran”, Holders and Organizers: “Osveh University” and “Shahid Beheshti University”, Tehran, Iran, August 2017.

13.92. Roxana Rakhshandeh and **Hamidreza Ashrafi**, “Evaluation of the Behavior of Steel Structures with Concrete-Filled Tube (CFT) Steel Columns, against Progressive Collapse, Using Nonlinear Static Analysis”, (in Persian Language), “Fifth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, “Shahid Beheshti University”, Tehran, Iran, December 2017.

13.93. Roxana Rakhshandeh and **Hamidreza Ashrafi**, “Evaluation of the Behavior of Steel Structures with Concrete-Filled Tube (CFT) Steel Columns, against Progressive Collapse, Using Nonlinear Dynamic Analysis”, (in Persian Language), “Fifth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, “Shahid Beheshti University”, Tehran, Iran, December 2017.

13.94. **Hamidreza Ashrafi** and Somayeh Yaghouti, “Investigation of the Effect of Plasticity Behavior of Members on the Capacity Spectrum of Two-Dimensional Steel Frames with Height Irregularity”, (in Persian Language), “Fifth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, “Shahid Beheshti University”, Tehran, Iran, December 2017.

13.95. **Hamidreza Ashrafi** and Seyyed Heidar Hosseini-Tabar, “Investigation of New Designs for Replacing Bracings with Buckling Risk in Buildings, with Steel Skeletons against Earthquake Forces to Ensure Structural Stability”, (in Persian Language), “Third International Conference on New Horizons in Civil Engineering, Architecture and Urban Planning”, “The Association of New Horizons for Science and Technology”, Tehran, Iran, March 2018.

13.96. Salar Khorshidi, Abazar Asghari and **Hamidreza Ashrafi**, “Investigation of the Effect of Slotted Yielding Dampers and Improving Their Performance in Steel Moment Resisting Connections”, (in Persian Language), “Islamic World Civil Engineering, Architecture and Urban Planning Conference”, Holders and Organizers: “University of Tabriz”, “Shahid Madani University of Azerbaijan” and “Tabriz Municipality Scientific-Applied University”, Tabriz, Iran, May 2018.

13.97. **Hamidreza Ashrafi** and Behzad Rouhani, “Investigation of Seismic Behavior of Steel Buildings with Lateral Load-Bearing System of Steel Shear

Wall and Concrete-Filled Tube (CFT) Steel Columns”, (in Persian Language), “International Conference on Civil Engineering, Architecture and Urban Development Management in Iran”, Holders and Organizers: “Maragheh Institute of Higher Industrial Education” and “Maragheh University of Technology”, in Cooperation with “University of Tabriz” and “Shahid Madani University of Azerbaijan”, Tehran, Iran, December 2018.

13.98. Hamidreza Ashrafi and Behnam Sajjadian, “A Review of the Behavior of Low-Yield-Point (LYP) Steel Sheets, and Their Application in Steel Shear Walls”, (in Persian Language), “International Conference on Civil Engineering, Architecture and Urban Development Management in Iran”, Holders and Organizers: “Maragheh Institute of Higher Industrial Education” and “Maragheh University of Technology”, in Cooperation with “University of Tabriz” and “Shahid Madani University of Azerbaijan”, Tehran, Iran, December 2018.

13.99. Hamidreza Ashrafi and Behnam Sajjadian, “Comparison of the Behavior of «Steel Shear Walls, Made of Low-Yield-Point (LYP) Steel Sheets» with «Conventional Steel Shear Walls»,» (in Persian Language), “International Conference on Civil Engineering, Architecture and Urban Development Management in Iran”, Holders and Organizers: “Maragheh Institute of Higher Industrial Education” and “Maragheh University of Technology”, in Cooperation with “University of Tabriz” and “Shahid Madani University of Azerbaijan”, Tehran, Iran, December 2018.

13.100. Hamidreza Ashrafi and Somayyeh Yaghouti, “Investigation of Methods for Estimating Earthquake Damage, Using Geographic Information System”, (GIS) (in Persian Language), “First National Iranian Conference on the Role of Civil Engineering in Risk Reduction”, Holders and Organizers: “Razi University” and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.101. Hamidreza Ashrafi and Amir Hossein Tanha, “A Review of the Seismic Performance of Steel Moment Frames with T-Stub Connections Equipped with Friction Dampers”, (in Persian Language), “First National Iranian Conference on the Role of Civil Engineering in Risk Reduction”, Holders and Organizers: “Razi University” and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.102. Hamidreza Ashrafi and Amir Hossein Tanha, “Investigation of Reducing Environmental Risks through the Use of Concrete Containing Plastic Waste”, (in Persian Language), “First National Iranian Conference on the Role

of Civil Engineering in Risk Reduction”, Holders and Organizers: “Razi University” and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.103. Hamidreza Ashrafi, Sepehr Almasi and Parsa Salemi, “Investigating and Understanding the Behavior of Reinforced Concrete Structures in Fire, and Methods of Improving Them against Fire”, (in Persian Language), “First National Iranian Conference on the Role of Civil Engineering in Risk Reduction”, Holders and Organizers: “Razi University” and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.104. Arash Bayat, **Hamidreza Ashrafi** and Mohammadreza Moradi, “Investigation of the Causes of Building Damages in 12th. Nov. 2017 Sarpol-e-Zahab Earthquake, and Methods for Strengthening Existing Structures”, (in Persian Language), “First National Iranian Conference on the Role of Civil Engineering in Risk Reduction”, Holders and Organizers: “Razi University” and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.105. Pouria Chavooshani, **Hamidreza Ashrafi**, Sina Mobki and Mohammad Hashemzadegan, “Investigation of Different Column Removal Scenarios on the Progressive Collapse Potential of Steel Moment Frames, Considering the Effect of Non-Structural Masonry Infills between Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.106. Hamidreza Ashrafi, Sina Mobki and Pouria Chavooshani, “The Effect of the Position of the Removed Column in Structures «with Soft Story Irregularity» and «with Variable Softness Values», on the Progressive Collapse Process of Reinforced Concrete Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.107. Hamidreza Ashrafi, Sina Mobki and Pouria Chavooshani, “The Effect of Irregularity Due to Discontinuity of the Lateral Load-Bearing System in Height, on the Progressive Collapse Process of Reinforced Concrete Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.108. Amir Hossein Tanha, **Hamidreza Ashrafi** and Fatemeh Tanha Sartakhti, “Numerical Simulation of T-Stub Steel Moment Connections Equipped with Slotted Yield Damper and Investigation of the Role of Connection Components on Its Cyclic Behavior”, (in Persian Language), “Sixth National Iranian Conference on Applied Researches in Civil Engineering, Architecture and Urban Management”, “Khajeh Nasiroddin Toosi University of Technology (KNTU)”, Tehran, Iran, June 2019.

13.109. Behzad Rouhani and **Hamidreza Ashrafi**, “Numerical Comparison of Seismic Behavior of Steel Shear Wall System with Concrete-Filled Tube (CFT) Steel Column and with Moment Frame and Cross Bracing Systems”, (in Persian Language), “Third International Conference on Applied Researches in Structural Engineering and Construction Management”, “Sharif University of Technology”, Tehran, Iran, July 2019.

13.110. Behzad Rouhani and **Hamidreza Ashrafi**, “Investigation of the Behavior of Steel Shear Walls with Concrete-Filled Tube (CFT) Steel Columns with Moment Frame and Cross Bracing”, (in Persian Language), “Third International Conference on Applied Researches in Structural Engineering and Construction Management”, “Sharif University of Technology”, Tehran, Iran, July 2019.

13.111. **Hamidreza Ashrafi**, Yeganeh Moradi Sartakhti and Seyyed Saeed Hosseini, “A Review of the Effect of Using Magnetic Water and Applying Magnetic Fields, on the Mechanical Properties of Concrete”, (in Persian Language), “Sixth National Iranian Conference on New Technologies in Civil Engineering, Architecture and Urban Planning”, “Shahid Beheshti University”, Tehran, Iran, December 2019.

13.112. Amir Hossein Tanha, **Hamidreza Ashrafi**, Mohammad Mehdi Mahdavian and Fatemeh Tanha Sartakhti, “Investigation of the Effect of Using Coarse Plastic Fibers in Concrete”, (in Persian Language), “International Conference on Civil Engineering, Architecture, Development and Regeneration of Urban Infrastructures in Iran”, “University of Tehran”, Tehran, Iran, July 2020.

13.113. Amir Hossein Tanha, **Hamidreza Ashrafi** and Fatemeh Tanha Sartakhti, “Using Silica and Nano-Silica in Plastic Concrete”, (in Persian Language), “International Conference on Civil Engineering, Architecture, Development and Regeneration of Urban Infrastructures in Iran”, “University of Tehran”, Tehran, Iran, July 2020.

14. Supervising or Advising PhD Dissertations in Civil Engineering

14.1. Mohammadreza Seifi Asgshahr, “Investigation of the Effect of Corrosion Caused by Chloride Ion Penetration on the Seismic Performance of Reinforced Concrete Bridges”, (in Persian Language), Supervisor: Alireza Rahaii, **Advisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, Defense Date: February 2017.

14.2. Arash Bayat, “An Investigation the Effect of Progressive Collapse Behavior in Double-Layer Spatial Structures (Scallop, Scheduler and Diamatic Domes)” (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: November 2024.

14.3. Somayyeh Yaghouti, “Investigation of the Effect of Nonlinear Normal Modes on Adaptive Pushover Analysis in Three-Dimensional Motion of Structures” (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, has not Defended yet, At the End of Defending Stage.

15. Supervising or Advising Master's Theses in Civil Engineering

15.1. Mostafa Jalal, “Numerical Investigation of Confinement Effect in Columns Reinforced with FRP Sheets”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2010.

15.2. Alireza Poladkhan, “Numerical Investigation of Electrodynamic Behavior of Layered Piezoelectric Smart Plates”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

15.3. Hamidreza Ghanbari Rafatieh, “Investigation of Nonlinear Dynamic Behavior of Steel Frames with Composite (Concrete and Steel) Beams and Semi-Rigid Connections under Earthquake Accelerograms”, (in Persian Language), Supervisor: Mojtaba Fathi, **Advisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

15.4. Hadi Moradi, “Investigation and Comparison of the Performance of Reinforced Concrete Frames Strengthened with Metal Braces and Steel Shear Walls”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: December 2011,

15.5. Peyman Tedro, “Investigating the Performance of Several Types of Passive Dampers in Steel Structural Buildings, and Comparing It with the Performance of Concentric Braced Frames (CBF), with Screwed Connections in Conventional Steel Structural Buildings”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: December 2011.

15.6. Kasra Shahbazian, “Nonlinear Finite Element Analysis of Different Types of Steel Shear Walls, and Their Comparison with Buckling-Restrained Braces (BRBs)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Bushehr Branch, Bushehr, Iran, Defense Date: January 2012.

15.7. Yousef Bijazi, “Numerical Study of Composite Semi-Rigid Connections with Upper Seat Angle, with and without Web Angle, under Uniform Loads”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2012.

15.8. Shahin Bidmeshki, “Investigation of Effective Parameters on Structures with Energy Absorbing Dampers”, (in Persian Language)”, **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2012.

15.9. Somayyeh Yaghooti, “Studying and Comparing Deformation of Nailing and Diaphragm Wall Retaining Structures”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2012.

15.10. Salman Ghoorehjili, “Investigating the Effect of Using Buckling-Restrained Brace (BRB) on the Ductility and Displacements of Braced Steel Structures”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2012.

15.11. Mohsen Bozgodari, “Evaluation of the Behavior of Square Section Reinforced Concrete Columns with Shape Memory Alloy (SMA) Stirrups”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2012.

15.12. Sirvan Taherpour, “Investigation of the Potential for Weak Floor Formation Due to the Rupture of Braces in Dual Steel Frames”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2013.

15.13. Soroosh Dadgar, “Investigating the Effect of Viscous Dampers on the Vibration Behavior of Dual Frames, and Determining the Behavior Coefficient

of Those Frames”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense date: October 2013.

15.14. Mohsen Javadi, “Investigation and Comparison of Double Steel Beam-to-Column Moment Connections, Using Side Plates and Using Internal Plates, Using the Finite Element Method”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2013.

15.15. Ali Ghanbari, “Structural Behavior of Concrete-Filled Tube (CFT) Steel Column Connections under Fire Effect during Heating and Cooling”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: January 2014.

15.16. Mohammad Basharat, “Behavioral Comparison of Retaining Structures Using Nailing, Tie-Back and Diaphragm Wall Methods”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Hamedan Branch, Hamedan, Iran, Defense Date: February 2014.

15.17. Sima Mohammadi, “Investigation of the Behavior of Cross-Shaped Buckling-Restrained Brace (BRB)”, (in Persian Language), **Supervisors: Saeed Sabouri Qomi and Hamidreza Ashrafi**, Sadrol Mota'allehin Institute of Higher Education (Sadra University), Tehran, Iran, Defense Date: September 2014.

15.18. Kamran Rostampoor, “Structural Damages Detection in Plates, Using Wavelet Transform”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense date: October 2014.

15.19. Yousef Yousefi, “Investigation of Behavior of Composite Columns Buried in Concrete, Under Eccentric Load”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2014.

15.20. Mehdi Rasaei, “Investigation of the Seismic Behavior of CFT-SRC Steel-Concrete Composite Columns, Reinforced with Double IPE”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2014.

15.21. Amirhossein Elliyyin, “The Effect of Soil Arching Action on the Stability of Excavation Walls”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Hamedan Branch, Hamedan, Iran, Defense Date: November 2014.

15.22. Payam Azhari, “Studying and Investigation of the Effect of Deformation of Sheet Pile Retaining Structures, on the Structure Adjacent to the

Excavation”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Hamedan Branch, Hamedan, Iran, Defense Date: November 2014

15.23. Saman Tahmasbi, “The Effect of Surrounding Elements Characteristics on Corrugated Steel Shear Walls”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2015.

15.24. Maryam Almasi, “Investigation of Structural and Seismic Behavior of Concrete-Filled Tube (CFT) Steel Columns”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Saveh Branch, Saveh, Iran, Defense Date: August 2015.

15.25. Rafi’eh Nazifi, “Investigation of Structural and Vibration Behavior of Steel Columns Buried in Concrete, Called: Steel-Reinforced Concrete (SRC)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Saveh Branch, Saveh, Iran, Defense Date: August 2015.

15.26. Shahrokh Mowqoofeh, “The Effect of Opening on the Behavior of Corrugated Steel Shear Walls”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2015.

15.27. Marzieh-Sadat Moayyeri, “Investigation and Evaluation of Different Types of Lightweight Concrete in Terms of Structural, Constructability and Economical”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Isfahan Branch, Isfahan, Iran, Defense Date: January 2016.

15.28. Zahra Partovi, “Behavioral Study of Steel Structures Equipped with Buckling-Restrained Brace (BRB), Under Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2016.

15.29. Nasrin Safyari, “Investigation of the Seismic Behavior of Braced Ductile Shear Panels (BDSPs)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2016.

15.30. Samira Zaki Shahmaleki, “Investigation of the Vibration Behavior of Lightweight Buckling-Restrained Brace (BRB), and Comparison of Its Performance in Different Arrangements”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2016.

- 15.31.** Yahya Adinehfar, “Investigating the Effect of Adding Nano Silica, on the Properties of Roller Compacted Concrete (RCC) in Road Pavements”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2016.
- 15.32.** Ramtin Entezari, “Investigating the Effect of Different Mixing Design Parameters on the Technical Characteristics of High-Strength Plastic Concrete”, (in Persian Language), **Advisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Supervisors: Reza Aghayari and Hamid Toupchi Nejad, Defense Date: March 2016.
- 15.33.** Heydar Moradi, “Investigation of the Behavior of Composite Columns and Beams Buried in Concrete (Steel Reinforced Concrete, SRC), Under Biaxial Bending”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Kermanshah Branch, Kermanshah, Iran, Defense Date: March 2016.
- 15.34.** Seyyed Ali Hassanzadeh, “Nonlinear Analysis of Progressive Collapse in Reinforced Concrete Structures by Eliminating Vertical Load-Bearing Elements”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2017.
- 15.35.** Mehrdad Bayat, “Progressive Collapse Analysis of Reinforced Concrete Frames with Buckling-Restrained Brace (BRB)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2017.
- 15.36.** Amin Farrokhan Firouzi, “Investigating the Performance of Steel Dual Systems Against Progressive Collapse, Considering the Behavior of the Panel Zone”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2017.
- 15.37.** Seyyed Milad Hosseini, “Investigation of the Effect of Ductility on Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2017.
- 15.38.** Hazhir Mesri, “Investigation of the Seismic Behavior of Frames with Concrete-Filled Tube (CFT) Steel Columns and Steel Beams, with Buckling-Restrained Brace (BRB)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2018.
- 15.39.** Razieh Souri, “Investigation of the Behavior of Steel Structures Equipped with Cast Modular Ductile Brace (CMDB), Against Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2018.

- 15.40.** Vahid Yeganeh, “Studying the Capacity Curve of Moment Resistant Structures with Concrete-Filled Tube (CFT) Steel Columns”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2018.
- 15.41.** Zahra Mohammadi, “Investigation of the Behavior of Reinforced Concrete Structures Equipped with Steel Shear Wall System, Against Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2018.
- 15.42.** Roxana Rakhshandeh, “Investigation of the Behavior of Steel Structures with Concrete-Filled Tube (CFT) Steel Columns and Steel Shear Wall System, Against Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2018.
- 15.43.** Behnam Sajjadian, “Investigation of the Seismic Performance of a Mild Steel Plate (LYP) Steel Shear Wall, with Spherical Surface Protrusion”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2018.
- 15.44.** Amirhossein Tanha, “Investigation of the Cyclic Behavior of T-Stub Moment Frame Connections, Equipped with Friction Damper”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: June 2019,
- 15.45.** Mohammad Karimi, “Studying and Comparison of Behavior and Performance of Fiber Reinforced Concretes (FRCs) with Different Types of Used Fibers, and Also Hybrid Fibers” (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2019.
- 15.46.** Sina Mobki, “The Effect of Irregularities in Reinforced Concrete Frames on the Potential for Progressive Collapse”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2019.
- 15.47.** Hossein Salem Hashem (Foreigner Master Degree Student), “Evaluation of Compressive and Tensile Strength of Masonry Samples, Constructed in Different Orientations, with Sand-Lime and Sand-Gypsum Mortars”, (in English Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: December 2019.
- 15.48.** Arash Mahmoudi, “Assessment of Progressive Collapse Potential in Reinforced Concrete Buildings, Under the Scenario of Simultaneous Removal

of Two Vertical Load-Bearing Elements, Considering the Slab Bending Effect”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2020.

15.49. Behzad Rouhani, “Investigation of Seismic Behavior of Steel Buildings with Dual System, and also with Concrete-Filled Tube (CFT) Steel Columns and Steel Shear Walls”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2020.

15.50. Armin Veisi, “Determination of R Factor (i.e. Response Modification Coefficient or Behavior Coefficient in Earthquake Engineering) in Concrete Moment Frame Structures with Irregularities in Plan, Under Near-Fault and Far-Fault Zone Earthquakes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: August 2021.

16. Supervising of Research Projects, Theses of Virtual Master of Civil Engineering, Department of Engineering and Construction Management

16.1. Hamdollah Habibi, “Investigation and Study of Sulfur Concrete”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: July 2011.

16.2. Hossein Raisianzadeh, “Investigation of Characteristics, Tests and Application Methods of Sulfur Asphalt Concrete”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: September 2011.

16.3. Aylar Yousefalizadeh, “Studying and Evaluation of the Lean Construction System in Iran”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: November 2011.

16.4. Milad Torabi Anaraki, “Investigation of Metal Corrosion Due to Environmental Conditions in the Persian Gulf”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: November 2011.

16.5. Hananeh Tamddonnajad, “Investigation of Environmental Impacts Resulting from the Use of Concrete, from the Cement Production Stage to the End of the Service life Time of Concrete and Its Destruction, and Its Comparative Evaluation in Iran and in the World”, (in Persian Language),

Supervisor: Hamidreza Ashrafi, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: November 2011.

16.6. Alireza Islam Khajehvand, “Comparative Evaluation of Different Methods of Building Demolition, and Selection of Appropriate Methods for Specific Conditions in Iran”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: July 2012.

16.7. Effat Kazemi, “Applications of Metallic Concrete Formworks, and Comparison of Industrial and Traditional Formworks, with Emphasis on the Implementation Conditions in Iran”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: July 2012.

16.8. Mousa Kalhori, “The Effect of Stone Powder and Viscosity Modifying Agent (VMA) on Rheological, Mechanical and Durability Properties of Self Consolidating (Compacting) Concrete (SCC)”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: October 2012.

16.9. Mehdi Fallah Tafti, “Evaluation of a Competent Project Manager”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: November 2012.

16.10. Nasim Momendoost Shadkhoo, “Nano Concretes, and Comparing it with Concretes without Nano Materials”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Defense Date: November 2012.

17. Supervising “Specialized Projects” at the Bachelor of Civil Engineering

17.1. Sepideh Ahmadi, “Studying and Investigation of Various Methods and Systems of Prefabricated Concrete Structures”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: November 2006.

17.2. Sima Yousefi, “Investigation, Studying and Application of Various Additives in Concrete”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2007.

17.3. Mojgan Kalantari, “Investigation, Studying and Comparison of Different Types of Building Foundations with Different Types of Soils”, (in Persian

Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2008.

17.4. Sirvan Rahimi, “Seismic Studies of Buildings, and Earthquake Hazard Analysis”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: January 2009.

17.5. Farzin Khazaei, “Concrete Deteriorations and Concrete Durability Construction Regulations”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: June 2010.

17.6. Solmaz Rezaei, “Concrete Construction in Different Environmental and Atmospheric Conditions”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2010.

17.7. Hossein Soufi, “Comparison and Selection of Methods, in Building Demolition Engineering”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2010.

17.8. Nima Shahlayee, “Methods of Ensuring Work Safety During the Construction of Buildings”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2010.

17.9. Aliakbar Ebadinasab, “Investigation of the Fundamentals of Structural Engineering, and Behavioral and Functional Comparison of Various Building Structural Systems”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: November 2010.

17.10. Milad Sahraei, “Reviewing Principles, Regulations and Codes of Building Demolition Engineering”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

17.11. Safoora Farhadian, “Comparative studying Various Methods of Stabilizing Soil Slopes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

17.12. Meysam Gholamzadeh, “Studying and Comparison of Different Excavation Methods and Construction of Retaining Structures”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: May 2011.

17.13. Roya Taladokht Azad, “Investigating Methods of Using Finite Elements in Civil Engineering”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2011.

- 17.14.** Rozhin Moftizadeh, “Soil Improvement and Stabilization”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2011.
- 17.15.** Hadis Matinpour, “Fundamentals of Geotechnical Engineering Codes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2011.
- 17.16.** Maliheh Karami, “Studying and investigating Deep Foundations”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2011.
- 17.17.** Parya Khazaei, “Studying and Investigating Steel Shear Walls, and Comparing Their Codes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2012.
- 17.18.** Negin Hosseini, “Investigating and Studying the Structure of Various Types of Woods, and Structural Behavior of Them and Wooden Structures”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: July 2013.
- 17.19.** Amir Hossein Dabiri, “Regulations and Construction Details of Masonry Buildings”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: January 2014.
- 17.20.** Mohammad Saleh Abbasi, “Methods of Conducting Soil Tests”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: June 2014.
- 17.21.** Asef Faraji, “Soil-Structure Interaction”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2014.
- 17.22.** Mohammad Irandoost, “Investigating Building Demolition Codes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: December 2014.
- 17.23.** Arman Seyyedi, “Studying o Fundamentals and Methods of Building Demolition Engineering”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2015.
- 17.24.** Omid Fattahi, “Studying and Investigating HSE Regulations in Building Construction Projects”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2015.
- 17.25.** Amir Reza Borzooei Nia, “Guidelines and Methods of Reinforced Concrete Buildings Construction”, (in Persian Language), **Supervisor:**

Hamidreza Ashrafi, Razi University, Kermanshah, Iran, Defense Date: September 2016.

17.26. Iman Fozooni, “Guidelines and Methods of Steel Buildings Construction”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2017.

17.27. Roghayyeh Shahsavari, “Investigating and Comparing Construction Regulations of Steel Structures Codes”, (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2017.

18. Reviewing PhD Dissertations in Civil Engineering

18.1. Mehdi Parvizi, “Laboratory and Numerical Study of the Interaction of Steel Shear Walls with Precast Concrete Frames, Under Lateral Loads and Earthquake Accelerogram”, Supervisor: Mojtaba Fathi, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2019.

19. Reviewing Master's Theses in Civil Engineering

19.1. Mehdi Hosseini Panah, “Investigation of the Effect of Hybrid Fibers on the Behavior of Concrete under Impact Loads”, (in Persian Language), Supervisor: Mahmoud Nili, **Reviewer: Hamidreza Ashrafi**, Bu-Ali Sina University, Hamedan, Iran, Defense Date: February 2011.

19.2. Mehdi Rahiminejad, “Investigation of Shrinkage and Consolidation of Self Compacting Repair Concrete (in Persian Language)”, Supervisor: Parviz Ghoddousi, **Reviewer: Hamidreza Ashrafi**, Iran University of Science and Technology, Tehran, Iran, Defense Date: March 2011.

19.3. Omran Amiriani, “Evaluation of Durability of Concrete Containing Aggregates from Recycled Concrete, against Thawing and Freezing Cycles”, (in Persian Language), Supervisor: Mahmoud Nili, **Reviewer: Hamidreza Ashrafi**, Bu-Ali Sina University, Hamedan, Iran, Defense Date: October 2011.

19.4. Fahimeh Khorram Rooz, “Failure in a Steel Shear Wall with Stiffener”, (in Persian Language), Supervisor: Saeed Sabouri Qomi, **Reviewer: Hamidreza Ashrafi**, Sadra Higher Education Institution, Tehran, Iran, Defense Date: September 2014.

19.5. Mehdi Zahraei, “Improving the Behavior of Moment Resistant Beam-Column Connections, Using Mild Steel (LYP)”, (in Persian Language),

Supervisor: Saeed Sabouri Qomi, **Reviewer: Hamidreza Ashrafi**, Sadra Higher Education Institution, Tehran, Iran, Defense Date: September 2014.

19.6. Zahra Mohammadi Rad, “Investigation of the Effective Factors and Code Regulations, Regarding Maximum and Minimum Shear Reinforcement of Deep Reinforced Concrete Beams”, (in Persian Language), Supervisor: Reza Aghayari, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2016.

19.7. Hamid Kian, “Pushover Analysis of Reinforced Concrete Structures, Considering Corrosion”, (in Persian Language), Shahid Rajaei Teacher Training University, Supervisor: Amir Tarighat, **Reviewer: Hamidreza Ashrafi**, Tehran, Iran, Defense Date: July 2016.

19.8. Ammar Odeh Badrolmounes (Foreigner Master Degree Student), “Study of the Effect of Adding Polypropylene and Steel Fibers to Concrete, on the Fire Resistance of Ultra-High-Strength Concrete”, (in English Language), Supervisor: Reza Aghayari, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: June 2017.

19.9. Roghayyeh Alizamani, “Investigation of the Behavior of Deep Reinforced Concrete Beams under Distributed Load, Using Strut-and-Tie Fundamentals”, (in Persian Language), Supervisor: Reza Aghayari, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2017.

19.10. Rahmatullah Shekari, “Investigation of the Seismic Behavior of a Vierendeel Truss Frame Equipped with Divergent Bracing”, (in Persian Language), Supervisor: Hamidreza Vaziri, **Reviewer: Hamidreza Ashrafi**, “Islamic Azad University, Science and Research Branch of Kermanshah”, Kermanshah, Iran, Defense Date: December 2017.

19.11. Hamed Mireh, “Parametric Investigation and Study of Factors Affecting the Capacity of Reinforced Concrete Flat Slabs under the Influence of High Temperature”, (in Persian Language), Supervisor: Mohammad Reza Habibi, **Reviewer: Hamid Reza Ashrafi**, “Islamic Azad University, Kermanshah Branch”, Kermanshah, Iran, Defense Date: June 2018.

19.12. Fariba Khorsand Nia, “Evaluation of the Performance of the Concrete Wall of a Rectangular Cubic Water Tank, Filled with Different Volumetric Ratios, under Near-Explosive Loading”, (in Persian Language), Supervisor: Mohammadreza Habibi, **Reviewer: Hamidreza Ashrafi**, “Islamic Azad University, Kermanshah Branch”, Kermanshah, Iran, Defense Date: June 2018.

19.13. Mohammad Ali Behdadfar, “Analysis and Investigation of the Level of Damage to Reinforced Concrete Slab Exposed to Contact Explosion”, (in Persian Language), Supervisor: Mohammad Reza Habibi, **Reviewer: Hamidreza Ashrafi**, “Islamic Azad University, Kermanshah Branch”, Kermanshah, Iran, Defense Date: July 2018.

19.14. Masoumeh Bahrami, “Improving the Ductility of «Reinforced Concrete-Masonry Walls» Using Reinforced Concrete Blocks”, (in Persian Language), Supervisors: Hamid Toupchinjad and Reza Aghayari, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2018.

19.15. Bahman Bahrami, “Laboratory and Numerical Investigation of the Behavior of an Excavation Wall with a Nailing System in Two Dimensions”, (in Persian Language), Supervisor: Mohammad Sharifipour, **Reviewer: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: January 2019.

20. Reviewing Articles (Papers), in scientific research journals

20.1. “Determining the Optimal Percentage of Sulfur Polymer Cement, Based on the Mechanical and Physical Properties of Concrete”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2011.

20.2. “Investigation of Cracking Pattern and Failure Mechanism in Deep Reinforced Concrete Beams, with Openings in the Web” (in Persian Language)”, Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2012.

20.3. “Investigation of the Effect of Cement Type and Pozzolan Content on the Bonding Strength of Pozzolan Repair Concrete”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2012.

20.4. “Detecting Surface Cracks in Concrete, Using Digital Image Processing Method”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2012.

20.5. “The Effect of Low-Reactivity Blast Furnace Slag on Chloride Ion Permeability in High-Strength Concrete”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2013.

- 20.6.** “Numerical Modeling of Anchored Excavation Using Tie-Back Method”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2013.
- 20.7.** “Ultimate Strength of the RC Walls Under Interactive Performance of In-Plane and Out-Of-Plane Loadings”, (in English Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2014.
- 20.8.** “Predicting the Elastic Modulus of Self-Compacting Concrete, Using Artificial Neural Network, Fuzzy Logic and Genetic Programming”, (in English Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2014.
- 20.9.** “Elastic Multi-Plane Damage Model, with a Combination of Axial and Shear Damage in Concrete Behavior”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2014.
- 20.10.** “Application of Zeolite in Concrete Made with Recycled Concrete Aggregate”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.11.** “Tensile Hardening Model of High-Performance Concrete (HPC), for the Behavior of Concrete Specimens Reinforced with Glass Fiber Reinforced Plastic (GFRP) Bars”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.12.** “Laboratory Study of the Effect of Micro Silica and Metakaolin on the Durability of Concrete in the Persian Gulf Coastal Areas”, (in Persian Language), Scientific Research Journal of Asas, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.13.** “Investigation of the Effect of Irregularity on the Progressive Collapse of Braced Steel Structures”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.14.** “Assessment of Progressive Collapse in Steel Structures, Under Earthquake Load”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.15.** “Low-Cost Health Monitoring of Bridges, Using the Time-Frequency Method Considering the Effect of Traffic Load Changes”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2017.
- 20.16.** “The Effect of Micro Silica on the Compressive Strength of Concrete Exposed to Sulfate Attack”, (in Persian Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2018.

- 20.17.** “Effects of Chromium on Cement Mortar: Investigation of Physical, Mechanical and Leaching Properties”, (in English Language), Asas Scientific Research Journal, **Reviewer: Hamidreza Ashrafi**, 2018.
- 20.18.** “The Effect of Connection Stiffness on Progressive Collapse in Steel Moment Frame Buildings”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2018.
- 20.19.** “Seismic Assessment of Progressive Collapse in Short-Rise Three-Story Reinforced Concrete Buildings Due to the Removal of the Middle Column”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2018.
- 20.20.** “The Effect of Span Length on the Progressive Damage Behavior in Concrete Structures”, (in Persian Language), Scientific Research Journal of Structures and Construction, **Reviewer: Hamidreza Ashrafi**, 2020.
- 20.21.** “Multivariate Sensitivity Analysis of Ground Settlement in Pile and Rib Excavation Using High Resolution Numerical Modeling” (in Persian Language), Advanced Modeling in Civil Engineering, **Reviewer: Hamidreza Ashrafi**, 2025.
- 20.22.** “Laboratory Investigation of the Compressive Strength of Concrete Containing Phosphorus Slag as a Partial Replacement for Natural Sand” (in Persian Language), Advanced Modeling in Civil Engineering, **Reviewer: Hamidreza Ashrafi**, 2025.
- 20.23.** “The Effect of Mother Concrete Quality on Mechanical Properties and Impact Performance of Steel Fiber Reinforced Recycled Concrete” (in Persian Language), Advanced Modeling in Civil Engineering, **Reviewer: Hamidreza Ashrafi**, 2025.
- 20.24.** “Evaluation of the Behavior Coefficient of Special Flexural Frames for Reinforced Concrete Buildings, Optimized Based on Performance Considering the Increase in Beam Stiffness Compared to the Column” (in Persian Language), Advanced Modeling in Civil Engineering, **Reviewer: Hamidreza Ashrafi**, 2025.