



Dr. Alireza Khaloo

Distinguished Professor

ACI Fellow, PE

Head of Center of Excellence
in Structures and Earthquake
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Academic and Professional Background

Professor	1996	Civil Engineering, Sharif University of Technology
Asso. Professor	92 - 96	Civil Engineering, Sharif University of Technology
Assi. Professor	87 - 92	Civil Engineering, Sharif University of Technology

Educational Background

PhD	1986	Structural Engineering, North Carolina State Univ., Dept. of Civil Eng., Raleigh, NC
MSc	1981	Structural Engineering, West Virginia State Univ., Dept of Civil Eng., Morgantown, WVa
BSc	1979	Civil Eng., Univ. of Texas at Arlington, Dept. of Civil Eng., Arlington, TX.

Positions at SUT

2017-Cont	Member of Research Committee
2012-Cont	Member of Construction Management Division.
2013-Cont	Director of Civil Engineering Branch of Pardis.
2015-Cont	Member of Supreme Committee of Several joint Institutions and Research Based Organizations.
2012- Cont	Manager, Strong floor Dynamic Lab.
2011- Cont	Civil Eng. Dept. representative for selecting new faculty members.
2010-2012	Member of Supreme Committee of Sharif Univ. of Tech.
2005- Cont	Member of planning and decision making of shaking Table.
2008- Cont	Director of Structures Lab
2006 – Cont	Chair, Center of Excellence in Structures and E/Q Engineering
2006 - 2010	Head of Equipment committee.
2006 - Cont	Director of materials and Concrete Technology Lab.
2006 - Cont	Representative of Structures/EQ Eng. group in promotion Committee
2003 – Cont	Representative of CE Dept. in Promotion Committee
1999 – 2011	Manager of <u>STRONG FLOOR Lab</u> , Founding, Planning, Design and supervision of construction of 16X11m strong floor and superstructure, and Installation, Testing and Calibration of testing devices for various operations based on limitations and feasibilities, also Contract Preparation, Selection of Contractors, Approval of Activities and Payments, Selection of Actuators with different capacities and capabilities for ordering, Detailed supervision of all the equipments and fully equipped the Lab with necessary supporting tools for testing.
1995 – 2004	Member of graduate Committee
1991-1993	Installation and preparation of Advanced Mechanics of Materials Lab
1992	Initiated PhD program in the Civil Engineering Department
1988 – 1993	Member of graduate Committee
1999 – 2003	Principal of Practical Training
1989 – 1994	Head of Structural Engineering Division
1989 – 1994	Assoc. Chairman of Research and Industrial Relations
1988 – 1994	Director of Structural and Materials Laboratory

Patents

- A confining technique for reinforcing concrete slabs, patent No. 24783, June, 24, 2000
- A confining technique for RC columns, patent No. 26562, June, 16, 1993.
- Mix design for structural silica fume concrete based on grout workability, Feb. 4, 2008, Patent No. 56848.
- Active control of heat in mass concrete, Feb. 4, 2008, Patent No. 56856.
- Self- centering RC columns, Oct. 25, 2009, Patent No. 61998.
- Water drainage FRC cover, 2016, Patent No.
- Manhole cover made with composite high-performance concrete, March, 4, 2016, Patent No. 88089.

Awards and Recognitions

Outstanding contribution in reviewing (Jrnl. of Engineering Structures)	2018, ELSEVIER
Outstanding contribution in reviewing (Jrnl. of Construction and Building Materials)	2017, ELSEVIER
Elite Professor	2017 SUT
Deserving Recognition List	2017 SUT
Sheikh Bahae, 13th Ceremony	2017 (Comp. Manhole Cover)
Research Activities Award	2016 SUT
Deserving Recognition List	2015 SUT
ALAMEH TABATABAEE award	2013 National Elites Foundation
ACI Excellent chapter award	2011 USA
ACI Excellent chapter award	2010 USA
Distinguished researcher	2010 SUT
ACI Excellent chapter award	2009 USA
ACI Excellent chapter award	2008 USA
Membership Award, 2009	2009 Elites Foundation
Outstanding applied research activities	2008 Tehran municipality
Outstanding construction research activities	2008 city planning & housing
ACI Excellent Chapter Award	2007 USA
Who's who in engineering education	2007 Academic keys, USA
Certificate of Appreciation, (ACI)	2007 USA
Book on Science & Technology, National 2nd place	2007 Dahe-Fajr
ACI Excellent chapter award	2006 USA
ACI Excellent chapter award	2005 USA
Distinguished professor, National award, Ministry of Science, Research and Technology	2005 Ministry of Science, Research and Technology
American Concrete Institute, (ACI) FELLOW Award	2004 USA
ACI Excellent Chapter Award	2004 USA
ACI Excellent Chapter Award	2003 USA
Exemplary researcher	2002 SUT
ACI Excellent Chapter Award	2002 USA
ACI Excellent Chapter Award	2001 USA
ACI Outstanding Chapter Award	2000 USA

Publication of 17 papers in Internationally recognized Journals & Conference proceedings	1998 SUT
Superior engineering activities, Environmental Engineering & Architecture Forum	1997 Tehran (Ministry of Housing)
Distinguished professor	1996 SUT
Distinguished researcher	1996 SUT
Civil Eng. students magazine, teachers day	1994 SUT
Distinguished professor, teachers day	1993 SUT
RMCAS award, Concrete and Structures	1991 Singapore
Distinguished researcher, teachers day	1991 Superior council of scientific research
Distinguished researcher	1990 Ministry of Higher Education
Superior educational activities	1989 SUT
Member of Several honor societies	1977-1979/ UTA, USA
Outstanding student in Physics	1976 WC, USA

Teaching

Undergraduate courses:

- Statics
- Dynamics
- Mechanics of Materials I and II and Laboratory
- Structural Analysis I and II
- Analysis and Design of Concrete Structures I and II (according to ACI Code)
- Concrete Design Project
- Construction Materials and Laboratory
- Concrete Technology and Laboratory

Graduate courses:

- Elastic Stability
- Experimental Structural Analysis
- Advanced Theory and design of Concrete Structures
- Analysis and Design of Prestressed Concrete Structures
- Seminar (structures)
- Advanced Construction Materials and Building Systems
- Advanced Concrete Technology
- Construction Methods
- Health Monitoring and Seismic Repair and Strengthening of Structures

Short Courses and seminars (Earthquake Engineering, New RC materials, Effects of previous earthquakes on structures and facilities, Detailing of structures in EQ zones,

Evaluation of brick quality, Quality production of aggregates for concrete, Strengthening methods of structures and facilities against EQ loads, EQ Vulnerability Evaluation and Strengthening of Structures and Equipments (buildings, pipelines, tanks, vessels, stacks, etc.), EQ Hazard Reduction Plans, etc.)

Guided students

Practical Trainee	directed more than 170 senior students
BS Projects	guided over 50 senior students on their optional project
MS Thesis	Supervised over 200 graduate students
PhD	Supervised 15 students in structural-earthquake engineering, 10 PhD students under supervision
Post-Doctorate 6, supported by National Elites Foundation	

Organizing Conferences

Has organized several national and international conferences (as chairman or member of organizing committee) related to concrete structures, concrete composite materials, Health Monitoring, strengthening, earthquake and structural engineering.

Has recently chaired two National conf. on "Applied research in structural engineering and construction management," Sep. 2017 and March, 2018.

Chair, International conf on "Applied research in structural engineering and construction management", Tehran, June 2019.

Workshops (organizer)

- Fiber Reinforced Concrete Technology, 2000, SUT, proceeding, 121p.
- New methods for health monitoring and strengthening, experimental and numerical analysis of structures and materials, 2008, SUT, Center of Excellence for Structural & E/Q Engineering.

Seminars

- Has organized over 80 short seminars in E/Q and structural engineering.

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Research Activities

Covers a range of topics related to **Structural Engineering, Reinforced Concrete structures, Concrete Composite materials, Materials of construction, Health Monitoring and Earthquake engineering**, such as; constitutive relationships, modeling and testing structures and structural components and materials, shear capacity of HSC beams, fiber reinforced composite materials and structural elements, high-strength normal and lightweight concrete, high performance concrete, durability of concrete in hot and aggressive environments, special concretes, RCC, use of industrial by-products in concrete, SCC(material and structural elements), sulfur concrete, nonlinear analysis and design of RC structures, multiaxial behavior of concrete, **condition assessment, repair & strengthening of structures in seismic zones**, brick and tile strength, influence of concrete

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strength on RC structures and structural components and material behavior, failure criteria of concrete in stress and strain space, external confinement of RC columns for seismic zones, innovations in the form of reinforcements of concrete structural components (columns, slabs, shear-walls, etc.), Bridge analysis and design (load DF and curved bridges), inelastic models for RC flexural and compressive members, seismic design parameters for RC members and structures, precast structures for seismic zones, 3D nonlinear analysis of dams, localization of structures, influence of reinforcement corrosion on seismic performance of RC structures, RC for crude oil tanks, CFST columns and connections, Use of FRP in strengthening RC beams, arch, columns, slabs and walls, steel coupling beams in shear walls, FRP bars for RC structures, seismic behavior of precast RC connections, **EQ vulnerability analysis and strengthening of buildings, refineries, petrochemical plants and sophisticated structures.**

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Impact behavior of RC slab using various strengthening techniques, use of Nano materials in concrete, strengthening steel structural members with CFRP laminate, RC column-steel beam behavior (exp. and seismic response), New method for supporting failure of structural frame caused by column removal.

Design and control of design of special buildings and structures.

Research Report: have submitted over 80 final reports.

Consulting and Design

Piles for offshore structures, Residential buildings, Construction performance of Tehran subway project, Mix design for special concretes, Reinforced concrete detailing, Strengthening brick walls, Rehabilitation of port structures, Retrofitting buildings damaged by Earthquake, Precast-prestressed concrete structures, Pavement construction method of airports, Pull-out tests for connections of tall precast RC buildings, Steel-fiber-reinforced concrete, Relaxation of prestressing bars, Strength evaluation of tall RC buildings using NDT, Seismic design, Strength evaluation and strengthening methods of structures, Testing methods for structural materials and structures, Concrete technology and materials of construction, Quality control of large construction materials and structural systems, Vulnerability evaluation and strengthening of various structures and facilities. Design and control of design of special buildings and structures.

Health monitoring of bridges and tall structures.

Typical cases

Quality control manager of Masjed Soleyman Dam. 96- 97.

Vulnerability analysis and strengthening, buildings, bridges, lifelines

and equipments, 1991 - continues.

Design of post-cooling System for concrete plug of culvert of Karkheh Dam, 1996.

Head of Beton Chimie research center, initiated the center, 1995-1998.

Consultant, Construction Materials Division of "Building & Housing Research Center", 1996-1998.

Design of RCC of Jegin Dam, 1998-1999.

Consultant, Structure and Concrete Divisions of "Building & Housing Research Center", 2000-2001.

Consultant, Analysis and Design of Structure and Concrete, Milad tower, 436m tall structure in highly seismic zone, 1997-2003.

National companies, EQ vulnerability analysis and strengthening of several major refineries, petrochemical plants, pump station and distribution, (pipelines, equipments, tanks, and buildings), project manager, 2000 - continues.

Technical Principal, developing code of practice for materials used in marine and port structures, 2000-2001.

Seismic evaluation, Bandar-Abbas Electric Office building against EQ loads and for durability, project manager, 2002-2003.

Management of water resources, Quality control production of aggregates for large projects, project manager, 2002-2003.

National research project, Strengthening RC structures in seismic zones, project manager, 1998-2003.

Special national research project, EQ moment-resisting connection for precast concrete frames, project manager, 2002-2004.

Management of water resources, methods and materials for repair and strengthening of dams, project manager, 2002-2004.

Center for protection of natural hazards, Maximum possible weight reduction in structures in EQ zones, project manager, 2003-2005.

Management of water resources, 3D analysis of concrete dams, dam-reservoir interaction, project manager, 2004-2005.

Ministry of Transportation, guide for widening highway bridges, project manager, 2005-2006.

Design, control of design and strengthening of numerous special

buildings and structures, 2001- continues. This includes over 1.5 million square meter of building floor.

Professional affiliations

Member, American Concrete Institute(1982-2012), Phi Theta and Chi Epsilon, Iranian Society of Civil Engineers, National committee of large dams(1989-1994). **Vice-president**, Iran Chapter of ACI(1990-1999), Iranian scientific society of EQ engineering(2000-2003). **President**, Iran Chapter of ACI(2000-2012). **Managing committee and a founder**, Iranian concrete society(2000-2003). **Chairman**, Iranian scientific concrete society, 2012-2018, **Editorial board**, Sharif civil eng. magazine, Tabriz univ. magazine, Amir-Kabir magazine, Asian journal of Civil Eng., Building and housing news, Zamin-Larzeh, Iranian concrete society, International journal of civil engineering (1990-2005). **Editor-in-chief**, Journal of concrete technology 2000-2005, Journal of concrete Materials and structures, 2016 - continues, **Reviewer**, several Iranian journals, ACI Structural and Materials journals and International journal of Solids and Structures, Journal of Computers and Structures, Journal of Engineering Structures, ASCE Journals, Construction and Building Materials.

Registered Professional Engineer, Design and Construction supervision, First (Highest) base.

Books

"Experimental Analysis of Structures," SUT, June 1994, 179 p.

"Advanced Concrete Technology," SUT, 1999, 350 p.

"Cement-Based Composites," Technical Editor, Building and Housing Research Center, 2002, 285 p.

"Aggregates for large concrete projects," Sineh Sorkh Publisher, 2004, 226 p.

"Design of Prestressed Concrete Structures," Sineh Sorkh Publisher, 2003, 236 p.

"Design and Control of Concrete Mixtures," SUT, Translation of PCA book, 2004, 269 p.

"Lab Guides for Concrete Technology and Building Materials Experiments," SUT, 2004, 87 p.

"Strengthening RC Structures with FPR," SUT, 2008, 170 p.

"Evaluation of Seismic Performance of Structures with Seismostruct Software, " Nozhati, Masoomi and Khaloo, Motafakkeran Publisher, 2015, 268 P.

"The Analysis of Indirect Boundary Element Method in Experimental

A Fracture Mechanics for Concrete and Rock- Like Materials", Haeri and Khaloo, SUT, 2015, 178 P.

"Design of prestressed Concrete Structures," revised, SUT, 2016, 209 P.

T "Evaluating the Fracture Behavior of Brittle Materials using PFC", Haeri, safarazi, and Khaloo, SUT, 2016, 171 P.

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National Building and Structures Code

National Construction Regulations, Building Materials, Section 5, 2003.

Marine and Port Structures, Materials Section, 2000.

Iranian Concrete Code, General Requirements and Construction Practice, 2000.

Iranian Concrete Code, Structural Design, 2001 and 2018.

Commentary on Iranian Concrete Code, General Requirements and Construction Practice, 2004.

Welded Wire Fabric, Standards for behavior evaluation, 2005.

Candidate for Tehran's City Council, 2005

Oral Scientific Presentations: have presented over 70.

Refereed Journals

Ahmad, S.H., Shah, S.P. and Khaloo, A.R., "Orthotropic Model of Concrete for Triaxial Stresses," Jrnl. of Structural Engineering., ASCE, V. 112, No. 1, Jan. 1986, pp. 165-181.

Ahmad, S.H., Khaloo, A.R. and Poveda, A., "Shear Capacity of Reinforced HSC Beams," ACI Structural Jnl., V. 83, No. 2, Mar.- Apr. 1986, pp. 297-305.

Khaloo, A.R. and Ahmad, S.H., "Behavior of Concrete under Combined Shear and Compressive Stresses," ACI Mat. Jnl., V. 85, No. 6, Nov.- Dec. 1988, pp. 551-559.

Khaloo, A.R. and Ahmad, S.H., "Behavior of HSC under Torsional Triaxial Compressive Stresses," ACI Mat. Jnl., V. 86, No. 6, Nov-Dec. 1989, pp. 550-558.

Ahmad, S.H., Khaloo, A.R. and Irshaid, A., "Behavior of Concrete Spirally Confined by Fiberglass Filaments," Jnl. of Magazine of Concrete Research, V. 43, No. 156, Sep. 1991, pp.143-148.

Khaloo, A.R., "Non-unified Strain Criteria for Concrete under Multiaxial Stresses," Iranian Jnl. of Science and Technology, V. 18, No. 2, 1994, pp. 99-118.

Khaloo, A.R., "Properties of Concrete Using Clinker Brick as Coarse Aggregate," ACI Mat. Jnl., V. 91, No. 4, July-Aug. 1994, pp. 401-407.

Khaloo, A.R., "Unified Strain Criteria for Concrete under Multiaxial Stresses," Intern. Jnl. of Eng., Iran Univ. of Science and Technology, V. 5, No. 2a, Autumn 1994, pp. 47-72.

Khaloo, A.R. and Ghodrati Amiri, G.R., "Moment-Curvature Analysis of Confined Concrete Flexural Members," Asian Jnl. of Structural Eng., V. 1, No. 2, Summer 1995, pp. 103-127.

Khaloo, A.R., "Crushed Tile Coarse Aggregate Concrete," Cement, Concrete, and Aggregates (ASTM Journal), V. 17, No. 2, Dec. 1995, pp. 119-125.

Khaloo, A.R., "Influence of Seismic Design Parameters on Ductility of RC Flexural Members," Asian Jnl. of Structural Eng., V. 1, No. 4, Winter 1995, pp. 375-393.

Khaloo, A.R. and Nasehpoor, S., "Chemical Additives for Concrete," Magazine of Geotechnics and Mechanics of Materials, V. 13, Winter 1995, pp. 76-84.

Khaloo, A.R. and Kim, N., "Mechanical Properties of Normal to High-Strength Steel Fiber Reinforced Concrete," Cement, Concrete, and Aggregates (ASTM Journal), V. 18, No. 2, Dec.1996, pp. 92-97.

Khaloo, A.R. and Khosroshahi, A.A., "Strength Influence on Concrete Volume Dilation under uniaxial Compression," Amirkabir Jnl. of Science and Technology, V. 8, No. 32, Autumn 1996, pp. 290-297.

Khaloo, A.R., "Numerical Evaluation of Push-Off Method for Shear Test of Plain and SFR Concrete," Asian Jnl. of Structural Eng., V. 2, No. 1 & 2, Summer

1996, pp. 33-42.

Khaloo, A.R., "Impact Resistance of Normal Versus High-Strength SERC," *Jrnl. of Scientia Iranica*, V. 3, Nos. 1,2,3, Oct. 1996, pp. 105-111.

Khaloo, A.R., Kazemi, M.T. and Rashidi, S., "Comparison of Mechanical Properties of Plain and SFR Lightweight Concrete," *Jrnl. of Engineering, Ferdosi Univ.*, V. 9, No. 1, Spring 1997, pp.1-9.

Khaloo, A.R. and Kim, N., "Influence of Concrete and Fiber Characteristics on Behavior of Steel Fiber Reinforced Concrete under Direct Shear," *ACI Materials Journal*, V. 94, No. 6, Nov.-Dec. 1997, pp. 592-601.

Khaloo, A.R., and Neghadi, S., "Role of Additives in Enhancement of Useful Life of Concrete Structures," *Jrnl. of Cement Monthly*, No. 33, Feb. 1998, pp. 23-30.

Khaloo, A.R., "Behavior of Date-Leaf Fiber Reinforced Mortar," *CONCRETE INTERNATIONAL, Magazine of the ACI*, Aug. 1998, pp. 59-61.

Khaloo, A.R., "Role of Silica Fume on Improving Concrete Durability," *Yadman Magazine*, V. 1, No. 2, Spring 1998, pp. 20-23.

Khaloo, A.R., Tavakoli, M. and Samani, A.H., "General Formulas for Determination of RC Members Capacity under Axial Load and Bending Moment according to Neutral Axis," *Journal of Engineering, Ferdosi University*, V.10, No.2, 1998, pp. 157-168.

Khaloo, A.R. and Kim, N., "Effect of Curing Condition on Strength and Elastic Modulus of Lightweight High-Strength Concrete," *ACI Materials Journal*, V.96, No.4, July-Aug. 1999, pp. 485-490.

Khaloo, A.R. and Bagheri, P., "Ductility Evaluation of Prestressed Concrete Members," *Esteghlal Journal of Eng.*, V. 18, No. 1, Sep. 1999, pp. 61-80.

Khaloo, A.R., El-Dash, K.M., and Ahmad, S.H., "Model for Lightweight Concrete Columns Confined by Either Single Hoops or Interlocking Double Spirals," *ACI Structural Journal*, V. 96, No. 6, Nov.-Dec. 1999, pp. 883-890.

Khaloo, A.R. Ahmad, S.H. and El-Dash, K.M., "Behavior of Confined High-Strength Lightweight Concrete Columns," *Asian Journal of Civil Engineering*, V. 1, No. 1, 2000, pp.13-38.

Khaloo, A.R. and Morshed, R., "Behavior of Concrete Confined with Perforated Steel Plates," *International Journal of Engineering Science, Iran Univ. of Science and Technology*, No. 2, V. 11, 2000, pp.141-163.

Khaloo, A.R. and Morshed, R., "Behavior of Concrete Beams Reinforced with Perforated Steel Plates," *Esteghlal Journal of Engineering*, V. 18, No. 2, March

2000, pp. 77-96.

Khaloo, A.R., "Methods for Strengthening RC Structures Located in Seismic Zones (Columns and Connections)", *Journal of Zamin-Larzeh*, V. 4, No. 7, Spring 2000, pp. 7-11.

Khaloo, A.R., "Properties and Applications of Ordinary and Special Cements", *Journal of Cement Monthly*, No. 49, May 2000, pp. 9-17.

Khaloo, A.R. and Tariverdilo, S., "Behavior of Confined HSC Flexural Elements", *Asian Journal of Civil Engineering (Building and Housing)*, V. 1, No. 2, 2000, pp. 13-26.

Khaloo, A.R., "Roller Compacted Concrete (Materials and Mix Proportions)", *Building and Housing News*, No. 15, Spring 2000, pp. 2-7.

Khaloo, A.R., Shamsai M., and Amini A., "Experimental and Analytical Investigation of Behavior of RC Flexural Members Strengthened by Compressing Shear Critical Region", *Journal of Faculty of Engineering, Univ. of Tehran*, V. 34, No. 2, Sep. 2000, pp. 45-60.

Khaloo, A.R., "Milad Telecommunication Tower", *Journal of Zamin-Larzeh*, V. 5, No. 9, Autumn 2000, pp.4-9.

Khaloo, A.R. and Bozorgzadeh A., "Influence of Confining Hoop Flexural Stiffness on Behavior of HSLW Concrete Columns", *ACI Structural Journal*, V. 98, No.5, Sep.-Oct. 2001, pp. 657-664.

Khaloo, A.R. and Tariverdilo, S., "Ductility Evaluation of Confined HSC Flexural Members", *Iranian Journal of Science and Technology*, V. 25, No. 1, 2001, pp. 129-131.

Khaloo, A.R. and Tariverdilo, S., "Analysis of Softening RC Elements using Nonlocal Differential Fiber Element Model", *Asian Journal of Civil Engineering (Building and Housing)*, V. 2, No. 1, 2001, pp. 57-72.

Khaloo, A.R. and Parastesh, H., "Design Guidelines of Precast Concrete Frames in Highly Active Seismic Zones", *Building and Housing News*, No. 18, 2001, pp. 2-7.

Khaloo, A.R., Asadpoor, N., and Horr, A. M., "Full Dynamic Analysis of Tehran Telecommunication Tower: Linear & Non-Linear Responses", *Journal of the Structural Design of Tall Buildings*, V. 10, Issue 4, Dec. 2001, pp. 263-281.

Khaloo, A.R. and Parastesh, H., "Response of Precast Concrete Structures under Lateral Load Compared to Monolithic Structures", *Building and Housing News*, No. 19 and 20, 2001, pp. 15-21.

Khaloo, A.R., "Causes of Collapse of RC Structures Twin Towers in New York", *Cement News*, No. 39, Fall 2001, pp. 9-11 (part 1), No. 40, Winter 2001, pp. 39-

42 (part 2).

Khaloo, A.R. and Mirzabozorg H., "Load Distribution Factors in Skew Bridges", Asian Journal of Civil Engineering, V. 2, No. 3, 2001, pp. 233-243.

Khaloo, A.R., "Method and Importance of Moving towards HSC in Structures", Iran Concrete Society, Quarterly, Spring 2002, V. 5, pp. 16-17.

Khaloo, A.R. and Tariverdilo, S., "Static and Dynamic Localization in Softening RC Frame Structures", Amirkabir Journal, V. 13, No. 51, Summer 2002, pp. 105-115.

Khaloo, A.R. and Tariverdilo, S., "Localization Analysis of RC Members with Softening Behavior", ASCE Journal of Structural Engineering, V. 128, No. 9, Sep. 2002, pp. 1148-1157.

Khaloo, A.R., Roodpayma, S. and Houseinian, M.R., "Investigation of Silica Fume Produced in Iran as a Mineral Admixture for Concrete", accepted, Asian Journal of Civil Engineering

Khaloo, A.R. and Raissi, M., "Behavior of Concrete Slabs Reinforced with Perforated Steel Plates", Journal of Faculty of Engineering, Univ. of Tabriz, No. 27, Winter 2002, pp. 13-22.

Khaloo, A.R. and Shokofi N., "Experimental Investigation of Behavior of Shear-Walls Reinforced with Perforated Steel Plates", under review, Journal of Concrete Technology.

Khaloo, A.R. and Afshari, M., "Flexural Response of SFRC Slabs, Experimental Study", Journal of Concrete Technology, V. 1, No. 1, Dec. 2002, pp. 14-20.

Khaloo, A.R., "Compressive Behavior of Concrete Confined with High-stiffness Perforated Steel Plates", Asian Journal of Civil Engineering, V. 3, Nos. 3 & 4, 2002, pp. 57-73.

Khaloo, A.R. and Mirzabozorg H., "Load Distribution Factors in Simply Supported Skew Bridges", ASCE Journal of Bridge Engineering, V. 8, No. 4, July-Aug. 2003, pp. 241-245.

Khaloo, A.R. and Mirzabozorg H., "Load Distribution Factors in Skew Bridges using Semi-continuous Method", Journal of Ferdosi University, V. 15, No. 2, 2003, pp. 237-246.

Khaloo, A.R. and Mirzabozorg H., "Load Distribution Factors in Skew Bridges, A Comprehensive Study", accepted, Esteghlal Journal of Engineering.

Khaloo, A.R. and Abdollahzadeh S., "Theoretical Behavior of Concrete Structure Reinforced with Hoops", Iranian Journal of Science and Technology, TRANSACTION B, V. 27, No. B1, 2003, pp. 1-6.

Khaloo, A.R. and Tariverdilo, S., "Localization Analysis in Softening RC Frame Structures", *Journal of Earthquake Engineering and Structural Dynamics*, V. 32, Issue 2, Feb. 2003, pp. 207-227.

Khaloo, A.R. and Tariverdilo, S., "Softening Analysis of RC Structures", manuscript in process, to be submitted to *Journal of Computers and Structures*.

Khaloo, A.R. and Parastesh, H., "Cyclic Loading of a Ductile Precast Concrete Beam-Column Connection", *ACI Structural Journal*, V. 100, No. 3, May-June 2003, pp. 291-296.

Khaloo, A.R. and Parastesh, H., "Cyclic Loading of a Simple Moment-Resisting Precast Concrete Beam-Column Connection", *ACI Structural Journal*, V. 100, No. 4, July-Aug. 2003, pp. 440-445.

Khaloo, A.R. and Parastesh, H., "Analytical Response of Moment-Resisting Precast Concrete Beam-Column Connection", manuscript in process.

Khaloo, A.R. and Afshari, M., "Flexural Response of SFRC Slabs, Theoretical Study", *Journal of Concrete Technology*, V. 1, No. 2, May 2003, pp. 14-19.

Mirzabozorg H., Khaloo, A.R. and Ghaemian H., "Staggered Solution Scheme for Three-Dimensional Analysis of Dam-Reservoir Interaction", *The Journal of Dam Engineering*, V. XIV, Issue 3, 2003, pp. 147-179.

Khaloo, A.R. and Molaei, A., "Freeze and Thaw, and Abrasion Resistance of SFRC", *International Journal of Civil Engineering*, V. 1, No. 2, Dec. 2003, pp. 72-81.

Khaloo, A.R., Mohandesi, M.A. and Ojaghnezhad, F., "Influence of Crude Oil on Concrete Behavior", under review, *ASTM Journal of Cement, Concrete and Aggregates*.

Khaloo, A.R., "Conference on ACI Activities and Concrete Advancements", *Journal of Cement Monthly*, No. 78, Dec. 2004, pp. 45-51.

Khaloo, A.R. and Afshari, M., "Flexural Behavior of Small Steel Fibre Reinforced Concrete Slabs", *Journal of Cement & Concrete Composites*, V. 27, 2005, pp. 141-149.

Khaloo, A.R. and Sharifian, M., "Behavior of Low to High-strength Lightweight Concrete under Torsion", *Asian Journal of Civil engineering*, V. 3, Nos. 3 and 4, 2005, pp. 182-191.

Khaloo, A.R. and Sharifian, M., "Experimental Investigation of Low to High-strength SFR Lightweight Concrete under Pure Torsion", *Asian Journal of Civil engineering*, V. 6, No. 6, 2005, pp. 533-547.

Khaloo, A.R. and Hoseini, A., "Assessment of Representative Parameters in Electrochemical Chloride Extraction (ECE)", accepted, *Journal of Cement and*

Concrete Research.

Khaloo, A.R. and Hoseini, A., "Seismic Performance of High-strength Concrete Columns Strengthened with CFRP", *Canadian Journal of Civil Engineering*, V. 32, No. 3, June 2005, pp. 569-578.

Mirzabozorg H., Khaloo, A.R. and Ghaemian H., "Three-Dimensional Analysis of Dam-Reservoir Interaction", under review, *Journal of Earthquake Engineering and Structural Dynamics*.

Hoseini, A. and Khaloo, A.R., "Study of Electrochemical Chloride Extraction As A Non-destructive Repair Method: Part I. Discrete Test Samples", *Asian Journal of Civil Engineering*, V.6, NO. 3, 2005, pp. 167-182.

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