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17

Citations (Scopus):
897

Supervised PhD Theses

#	Thesis title	By	Date
1	Development and Comparison of Efficient Methods for Linear Dynamic Analysis of Concrete Dams	Seyyed Asghar Arjmandi & Vahid Lotfi	October 2011
2	an investigation on nonlinear seismic response of concrete arch dams by plastic-damage model including water compressibility effects	Omid Omidi & Vahid Lotfi	September 2010
3	an effective method for dynamic analysis of concrete arch dams	Ahmad Aftabi Sani & Vahid Lotfi	August 2007
4	Dynamic analysis of concrete dams with combination of finite element and boundary element methods	Mohammad Reza Sharghi & Vahid Lotfi	June 2003

Supervised MSc Theses

#	Thesis title	By	Date
1	Improvement of the classical theory of fracture mechanics based on the theory of material instability to enable accurate simulation of cracks in graphene	Mohammad Madadi & Vahid Lotfi	September 2021
2	Development of continuum fracture models for 2D nanomaterials to study their reinforcing effects as an additive in concrete	Babak Mosavi & Vahid Lotfi	May 2021
3	Nonlinear dynamic analysis of concrete arch dams by damage mechanic model	Seyyed Alireza Hashempour & Vahid Lotfi	October 2020

4	Nonlinear dynamic analysis of concrete gravity dams by damage mechanics model	Reza Akbari & Vahid Lotfi	February 2020
5	Dynamic analysis of concrete dam , foundation rock and reservoir using parallel processing	Amin Farmahini Farahani & Vahid Lotfi	September 2019
6	Seismic Analysis of Arch Dam-Reservoir-Foundation Rock System Using Modal Method in Time Domain	Reza Farzad & Vahid Lotfi	March 2019
7	Dynamic analysis of concrete gravity dams including dam-reservoir-foundation rock interaction by modal method in time domain	Mohammad Amin Haghghi & Vahid Lotfi	March 2019
8	Dynamic Analysis of Concrete Gravity Dams by Approximate Truncation Boundary Conditions in Time Domain	Hamid Taghavi Ganji & Vahid Lotfi	February 2016
9	Dynamic Analysis of Concrete Arch Dams by Approximate Truncation Boundary Conditions in Time Domain	Yadollah Yazdani & Vahid Lotfi	February 2016
10	dynamic analysis of concrete arch dams by upstream approximate B.C of reservoir in frequency domain	Javad Amanabadi & Vahid Lotfi	February 2015
11	Dynamic analysis of concrete gravity dams using approximate boundary conditions in the frequency domain	Seyed Iman Zare Estakhraji & Vahid Lotfi	January 2015
12	Dynamic Analysis Of Concrete Gravity Dams By Simplified Dam-Reservoir Interaction Approach	Mehran Jafari & Vahid Lotfi	February 2014
13	Dynamic Analysis of Concrete Arch Dams in Time Domain by Finite Element Method Considering Dam-Reservoir-Foundation Interaction	Mohamad Mohsen Zadekamand & Vahid Lotfi	October 2011
14	Dynamic Analysis of Concrete Arch Dams on Flexible Foundation Rock Using Finite Elements Method and Modified Efficient Fluid Hyper-Element in Frequency Domain	Golareh Bayati & Vahid Lotfi	October 2011
15	Dynamic Analysis of Concrete Gravity Dam-Reservoir-Foundation Rock System by Finite Elements Method in Time Domain	Kiyumars Sahebkar & Vahid Lotfi	October 2011
16	Dynamic analysis of concrete gravity dams on flexible foundation rock using finite elements method	Azamsadat Ahsan Esfahani & Vahid Lotfi	July 2011
17	Dynamic Interaction of Concrete Arch Dams and Foundation Rock by Finite Element Method in Frequency Domain	Hamid Reza Kazemi Nia Korrani & Vahid Lotfi	February 2010
18	Application of F.E.M. in Dynamic Analysis of Concrete Gravity Dams on Flexible Foundation Rock in Frequency Domain	Mohammad Reza Hajiabadi & Vahid Lotfi	February 2010
19	Dynamic analysis of concrete gravity dams by utilizing efficient fluid hyper-element in frequency domain	Maryam Hojati & Vahid Lotfi	November 2008
20	DYNAMIC ANALYSIS OF CONCRETE ARCH DAMS BY COUPLED MODAL METHOD IN TIME DOMAIN	Amirhossein Keivani & Vahid Lotfi	November 2007
21	STRESS AND FAILURE ANALYSIS OF PIN-LOADED HOLE ANISOTROIC PLATE UNDER IN PLANE LOADING	Mohammad Gholami & Vahid Lotfi	September 2007

Journal Papers

Portal Records

- 1 Vahid Lotfi, Ali Lotfi, "Application of Hagstrom-Warburton high-order truncation boundary condition on time harmonic analysis of concrete arch dam-reservoir systems", ENGINEERING COMPUTATIONS, February 2021 Vol. 0, Num. 0, Page 1-25, February 2021,
- 2 Arash Hosseinzadeh, Abbas Soroush, Vahid Lotfi, Mahdi Nobari Nasab, "Three Dimensional Seepage Analysis in Foundation and Abutments of Karun III Concrete Arch Dam", DAM ENGINEERING, August 2020 Vol. XXXI, Num. 1, Page 25-42, August 2020,
- 3 Vahid Lotfi, Gerald Zenz, "Time harmonic analysis of concrete gravity dam-reservoir systems by Wavenumber-TD approach", DAM ENGINEERING, December 2019 Vol. 30, Num. 2, Page 41-63, December 2019,
- 4 Hamid Taghavi Ganji, Vahid Lotfi, "Transient analysis of concrete gravity dams by Wavenumber-TD method for general excitation", PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, November 2019 Vol. 0, Num. 0, Page 1-17, November 2019,
- 5 Vahid Lotfi, Ahmad Aftabi Sani, "Calculation of coupled modes of fluid-structure systems by pseudo symmetric subspace iteration method", SCIENTIA IRANICA TRANSACTION A-CIVIL ENGINEERING, September 2019 Vol. 26, Num. 4, Page 2100-2107, September 2019,
- 6 Hamid Taghavi Ganji, Vahid Lotfi, "Time harmonic analysis of a gravity dam-reservoir system using Wavenumber-TD approach for general ground excitation", DAM ENGINEERING, December 2018 Vol. 29, Num. 1, Page 1-23, December 2018,
- 7 Mehran Jafari, Vahid Lotfi, "Dynamic analysis of concrete gravity dam-reservoir systems by Wavenumber approach for the general reservoir base condition", SCIENTIA IRANICA TRANSACTION A-CIVIL ENGINEERING, December 2018 Vol. 25, Num. 6, Page 3054-3065, December 2018,
- 8 Vahid Lotfi, Gerald Zenz, "Application of Wavenumber-TD approach for time harmonic analysis of concrete arch dam-reservoir systems", Coupled Systems Mechanics, June 2018 Vol. 7, Num. 3, Page 353-371, June 2018,
- 9 Vahid Lotfi, "Dynamic analysis of concrete gravity dam-reservoir systems by Wavenumber approach for the general reservoir base condition and ground excitation", DAM ENGINEERING, May 2017 Vol. 27, Num. 3, Page 33-57, May 2017,
- 10 Saeed Haji Ghasemali, Aliakbar Ramezaniapor, Vahid Lotfi, Mohammadhosein Kashefzadeh, "Investigation of the effect of Alkalai-Silica Reaction on the Structural Behavior of Reinforced Concrete Beams Using the Finite Element Method", , May 2017 Vol. 49, Num. 1, Page 23-33, May 2017,
- 11 Omid Omid, Vahid Lotfi, "Seismic plastic–damage analysis of mass concrete blocks in arch dams including contraction and peripheral joints", SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, April 2017 Vol. 95, Num. 0, Page 118-137, April 2017,
- 12 Omid Omid, Vahid Lotfi, "A symmetric implementation of pressure-based fluid-structure interaction for nonlinear seismic analysis of arch dams", JOURNAL OF FLUIDS AND STRUCTURES, February 2017 Vol. 69, Num. 0, Page 34-55, February 2017,
- 13 Seyed Iman Zare Estakhraji, Vahid Lotfi, "Dynamic analysis of concrete gravity dam-reservoir systems by approximate wavenumber approach", ENGINEERING COMPUTATIONS, October 2016 Vol. 33, Num. 7, Page 2045-2066, October 2016,
- 14 Vahid Lotfi, Gerald Zenz, "Transient analysis of concrete gravity dam-reservoir systems by Wavenumber-TD approach", SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, October 2016 Vol. 90, Num. 1, Page 313-326, October 2016,
- 15 Adib Khazaee, Vahid Lotfi, "A new technique for determining coupled modes of structure-acoustic systems", ARCHIVE OF APPLIED MECHANICS, July 2015 Vol. 85, Num. 7, Page 955-967, July 2015,
- 16 Adib Khazaee, Vahid Lotfi, "Time harmonic analysis of dam-foundation systems by perfectly matched layers", STRUCTURAL ENGINEERING AND MECHANICS, May 2014 Vol. 50, Num. 3, Page 349-364, May 2014,
- 17 Adib Khazaee, Vahid Lotfi, "Application of perfectly matched layers in the transient analysis of dam-reservoir systems", SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, April 2014 Vol. 60, Num. 1, Page 51-68, April 2014,

- 18 Omid Omid, Vahid Lotfi, "Earthquake response of concrete dams: a plastic-damage approach", EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, July 2013 Vol. 42, Num. 14, Page 2129-2149, July 2013,
- 19 Seyed Asghar Arjmandi, Vahid Lotfi, "Comparison of three efficient methods for computing mode shapes of fluid-structure interaction systems", ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, April 2013 Vol. 38, Num. 4, Page 787-803, April 2013,
- 20 Ali Samii, Vahid Lotfi, "A high-order based boundary condition for dynamic analysis of infinite reservoirs", COMPUTERS & STRUCTURES, April 2013 Vol. 120, Num. 1, Page 65-76, April 2013,
- 21 Omid Omid, Somasundaram Valliappan, Vahid Lotfi, "Seismic cracking of concrete gravity dams by plastic-damage model using different damping mechanisms", FINITE ELEMENTS IN ANALYSIS AND DESIGN, January 2013 Vol. 63, Num. 1, Page 80-97, January 2013,
- 22 Amirhossein Keivani, Vahid Lotfi, "An effective method for eigen-problem solution of fluid-structure systems", Computational Methods in Civil Engineering(CMCE), November 2012 Vol. 3, Num. 2, Page 1-14, November 2012,
- 23 Omid Omid, Vahid Lotfi, "Continuum large cracking in a rate-dependent plastic-damage model for cyclic-loaded concrete structures", INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS, October 2012 Vol. -, Num. 0, Page 0-0, October 2012,
- 24 Mohammad Reza Hajiabadi, Vahid Lotfi, "An effective approach for utilizing damping solvent extraction method in frequency domain", SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, July 2012 Vol. 38, Num. 1, Page 46-57, July 2012,
- 25 Arash Hiseinzadeh, Mahdi Nobari Nasab, Abbas Soroush, Vahid Lotfi, "Coupled stress-seepage analysis of KARUN III concrete arch dam", PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-GEOTECHNICAL ENGINEERING, July 2012 Vol. 1, Num. 1, Page 1-19, July 2012,
- 26 Vahid Lotfi, Omid Omid, "Dynamic analysis of Koyna dam using three-dimensional plastic-damage modeling", DAM ENGINEERING, June 2012 Vol. 22, Num. 3, Page 197-226, June 2012,
- 27 Vahid Lotfi, Ali Samii, "Dynamic analysis of concrete gravity dam-reservoir systems by wavenumber approach in the frequency domain", Earthquakes and Structures, June 2012 Vol. 3, Num. 3, Page 533-548, June 2012,
- 28 Ali Samii, Vahid Lotfi, "Application of the H-W boundary condition in dam-reservoir interaction problem", FINITE ELEMENTS IN ANALYSIS AND DESIGN, March 2012 Vol. 50, Num. 1, Page 86-97, March 2012,
- 29 Ali Samii, Vahid Lotfi, "High-order adjustable boundary condition for absorbing evanescent modes of waveguides and its application in coupled fluid-structure analysis", WAVE MOTION, March 2012 Vol. 49, Num. 2, Page 238-257, March 2012,
- 30 Seyyed Asghar Arjmandi, Vahid Lotfi, "Computing mode shapes of fluid-structure systems using subspace iteration methods", SCIENTIA IRANICA TRANSACTION A-CIVIL ENGINEERING, December 2011 Vol. 18, Num. 6, Page 1159-1169, December 2011,
- 31 Hamid Reza Kazemi Nia Korrani, Vahid Lotfi, "An investigation on dynamic interaction of concrete arch dams and foundation rock in frequency domain", , December 2011 Vol. 45 هجوه, Num. 5, Page 577-589, December 2011,
- 32 Maryam Hojati, Vahid Lotfi, "Dynamic analysis of concrete gravity dams utilizing two-dimensional modified efficient fluid hyper-element", ADVANCES IN STRUCTURAL ENGINEERING, October 2011 Vol. 14, Num. 6, Page 1093-1106, October 2011,
- 33 Seyyed Asghar Arjmandi, Vahid Lotfi, "Dynamic analysis of structures in frequency domain by a new set of Ritz vectors", STRUCTURAL ENGINEERING AND MECHANICS, September 2011 Vol. 39, Num. 5, Page 703-716, September 2011,
- 34 Ahmad Aftabi Sani, Vahid Lotfi, "An effective procedure for seismic analysis of arch dams including dam-reservoir-foundation interaction effects", JOURNAL OF EARTHQUAKE ENGINEERING, September 2011 Vol. 15, Num. 7, Page 971-988, September 2011,
- 35 Arash Fathi, Vahid Lotfi, "Effects of reservoir length and rigorous fluid-foundation interaction on the frequency response functions of concrete gravity dams", DAM ENGINEERING, January 2011 Vol. 21, Num. 3, Page 213-233, January 2011,

- 36 Ali Samii, Vahid Lotfi, "Comparison of coupled and decoupled modal approaches in seismic analysis of concrete gravity dams in time domain", , November 2010 Vol. 42, Num. 2, Page 37-47, November 2010,
- 37 Maryam Hojati, Vahid Lotfi, "Dynamic analysis of gravity dams by employing efficient fluid hyper-element", , September 2010 Vol. 42, Num. 1, Page 31-40, September 2010,
- 38 Arash Hiseinzadeh, Mahdi Nobari Nasab, Vahid Lotfi, Abbas Soroush, "Effects of foundation rock nonlinear models on analysis of Karun III concrete arch dam", , September 2010 Vol. 44, Num. 3, Page 351-363, September 2010,
- 39 Omid Omid, Vahid Lotfi, "Finite element analysis of concrete structures using plastic damage model in 3-D implementation", INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, September 2010 Vol. 8, Num. 3, Page 187-203, September 2010,
- 40 Omid Omid, Vahid Lotfi, "Numerical analysis of cyclically loaded concrete under large tensile strains by the plastic-damage model", SCIENTIA IRANICA TRANSACTION A-CIVIL ENGINEERING, June 2010 Vol. 17, Num. 3, Page 194-208, June 2010,
- 41 Ahmad Aftabi Sani, Vahid Lotfi, "Dynamic analysis of concrete arch dams by ideal-coupled modal approach", ENGINEERING STRUCTURES, May 2010 Vol. 32, Num. 5, Page 1377-1383, May 2010,
- 42 Hamidreza Arabshahi, Vahid Lotfi, "Nonlinear Dynamic Analysis of arch dams with Joint Sliding Mechanism", , May 2009 Vol. , Num. 5, Page 0-0, May 2009,
- 43 Hamidreza Arabshahi, Vahid Lotfi, "Earthquake response of concrete gravity dams including dam–foundation interface nonlinearities", , November 2008 Vol. , Num. 30, Page 0-0, November 2008,
- 44 Seyyed Asghar Arjmandi, Vahid Lotfi, "An investigation on the accuracy of the sommerfeld B.C. in dynamic analysis of concrete gravity dams", International Journal of Science & Technology (Amirkabir), November 2008 Vol. 19, Num. 69, Page 29-37, November 2008,
- 45 [en-name N/A], Vahid Lotfi, "Linear Dynamic Analysis of Arch Dams Utilizing Modified Efficient Fluid Hyper -Element", , October 2007 Vol. , Num. 29, Page 0-0, October 2007,
- 46 Ali Samii, Vahid Lotfi, "Comparison of coupled and decoupled modal approaches in seismic analysis of concrete gravity dams in time domain", , September 2007 Vol. , Num. 43, Page 0-0, September 2007,
- 47 Vahid Lotfi, "An Efficient three-dimensional fluid hyper-element for dynamic analysis of concrete arch dams", , December 2006 Vol. , Num. 6, Page 0-0, December 2006,
- 48 Vahid Lotfi, "frequency domain analysis of concrete arch dams by decoupled modal approach", , November 2005 Vol. , Num. 4, Page 0-0, November 2005,
- 49 Vahid Lotfi, "Significance of Rigorous Fluid_Foundation Interaction in Dynamic Analysis of Concrete Gravity Dams", , September 2005 Vol. , Num. 2, Page 0-0, September 2005,
- 50 Vahid Lotfi, "Frequency domain analysis of concrete gravity dams by decoupled modal approach", , August 2004 Vol. , Num. , Page 0-0, August 2004,
- 51 Vahid Lotfi, "Direct frequency domain analysis of concrete arch dams based on FE_ (FE_HE) _ BE technique", , August 2004 Vol. , Num. 3, Page 0-0, August 2004,
- 52 Vahid Lotfi, "Dynamic analysis of concrete arch dams based on FE _ BE procedure including non _ uniform ground motion", , May 2004 Vol. , Num. , Page 0-0, May 2004,
- 53 Vahid Lotfi, Radin Espandar, "Seismic analysis of concrete arch dams by combined discrete crack and non-orthogonal smeared crack technique", , January 2004 Vol. , Num. 1, Page 0-0, January 2004,
- 54 Radin Espandar, Vahid Lotfi, [en-name N/A], "Influence of effective parameters of non-orthogonal smeared crack approach in seismic response of concrete arch dams", , October 2003 Vol. , Num. 30, Page 0-0, October 2003,
- 55 Radin Espandar, Vahid Lotfi, "Comparison of non-orthogonal smeared crack and plasticity models for dynamic analysis of concrete arch dams", , June 2003 Vol. , Num. 81, Page 0-0, June 2003,
- 56 Vahid Lotfi, "Seismic analysis of concrete gravity dams by decoupled modal approach in time domain", , May 2003 Vol. , Num. 1, Page 0-0, May 2003,

- 57 Vahid Lotfi, "Seismic analysis of concrete dams using the pseudo - symmetric technique", , July 2002 Vol. , Num. 2, Page 0-0, July 2002,
- 58 Vahid Lotfi, Radin Espandar, "An investigation of joints behavior in seismic response of arch dams", , April 2002 Vol. , Num. 1, Page 0-0, April 2002,
- 59 Vahid Lotfi, Radin Espandar, "Seismic analysis of concrete arch dams by combined discrete crack and elasto - plastic technique", , September 2001 Vol. , Num. , Page 0-0, September 2001,
- 60 Vahid Lotfi, "Frequency domain analysis of concrete gravity dams including hydrodynamic effects", , April 2001 Vol. , Num. , Page 0-0, April 2001,
- 61 Vahid Lotfi, "Application of discrete crack in nonlinear dynamic analysis of shahid rajaee arch dam", , February 2001 Vol. , Num. 1, Page 0-0, February 2001,
- 62 Vahid Lotfi, Mohammad Reza Sharghi, "Direct frequency domain analysis of concrete gravity dams based on fe-be procedure", , January 2001 Vol. , Num. , Page 0-0, January 2001,
- 63 Radin Espandar, Vahid Lotfi, "Application of fixed smeared crack model in earthquake analysis of archdams", , January 2000 Vol. , Num. , Page 0-0, January 2000,
- 64 [en-name N/A], Vahid Lotfi, "The shahid rajaee (tagan) arch dam in Iran", , January 1997 Vol. , Num. , Page 0-0, January 1997,
- 65 Vahid Lotfi, "Comparison of discrete crack and elasto-plastic models in nonlinear dynamic analysis of arch dams", , January 1996 Vol. , Num. , Page 0-0, January 1996,
- 66 Vahid Lotfi, Faramarz Khoshnudian, "Dynamic analysis of concrete gravity dams by combination of finite elements and boundary elements methods", , January 1995 Vol. 0, Num. 0, Page 0-0, January 1995,

Conference Papers







Portal Records

- 1 Omid Omid, Vahid Lotfi, "Seismic safety analysis of concrete arch dams based on combined discrete crack and plastic-damage technique ", Fifteen World Conference on Earthquake Engineering, September 2012
- 2 Omid Omid, Vahid Lotfi, Valliappan, S., "Plastic-damage analysis of Koyna dam in different damping mechanisms with dam-water interaction ", Fifteen World Conference on Earthquake Engineering, September 2012
- 3 Vahid Lotfi, Ali Samii, "Frequency domain analysis of concrete gravity dam-reservoir systems by wavenumber approach ", Fifteen World Conference on Earthquake Engineering, September 2012
- 4 Ali Samii, Vahid Lotfi, "Application of high-order absorbing boundary condition in dynamic analysis of fluid-structure systems ", Fifteen World Conference on Earthquake Engineering, September 2012
- 5 Mahdi Nobari Nasab, Arash Hiseinzadeh, Abbas Soroush, Vahid Lotfi, "Numerical Analysis of 3D and 2D Seepage in a high coConcrete Arch Dam ", 4th International Conference on Geotechnical Engineering and Soil Mechanics, November 2010
- 6 Saeed Haji Ghasemi, Aliakbar Ramezaniapor, Vahid Lotfi, "Modeling of Reinforced Concrete beams under Simultaneous Alkali Aggregate Reaction and Creep ", 2nd National Iranian Conference of Concrete, October 2010
- 7 Vahid Lotfi, "Sesmic analysis of arch dams including dam reservoir foundation interaction effects by an effective procedure ", , October 2008
- 8 Vahid Lotfi, "Model analysis of concrete arch dams in time domain including dam reservoir interaction ", , October 2008
- 9 Vahid Lotfi, "Effects of reservoir lenght on dynamic analysis of concrete gravity dams ", , October 2008
- 10 Aliakbar Ramezaniapor, Vahid Lotfi, "Flexural strength and numerical simulation of ASR affected beams ", , June 2008

- 11 [en-name N/A], Arash Hiseinzadeh, Abbas Soroush, Vahid Lotfi, "Monitoring of a high concrete arch dam ", , June 2007
- 12 Omid Omid, Vahid Lotfi, "Aplication of pseudo symmetric technique for seismic analysis of concrete arch dams ", , May 2007
- 13 Vahid Lotfi, "Dynamic analysis of concrete arch dams by FE-(FE-HE)-BE approach ", , September 2005
- 14 Vahid Lotfi, Radin Espandar, "Application of combined discrete crack and non _ orthogonal smeard crack model in seismic response of arch dams ", , October 2004
- 15 Vahid Lotfi, "Dynamic analysis of concrete gravity dams by decoupled modal approach in time domain. ", , July 2004
- 16 Vahid Lotfi, Radin Espandar, "Dynamic analysis of concrete arch dams by FE-BE approach including non- uniform ground motion ", , September 2003
- 17 Radin Espandar, Vahid Lotfi, "An investigation on dynamic behavior of concrete arch dams by non-orthogonal smeared crack and plasticity models ", , August 2003
- 18 Vahid Lotfi, "Application of decoupled model approach in dynamic analysis of concrete gravity dams ", , June 2003
- 19 Vahid Lotfi, "Application of pseudo-symmetric technigue in dynamic analysis of concrete gravity dams ", , June 2003
- 20 Vahid Lotfi, "Analysis of concrete arch dams by FE-BE procedure in the frequency domain ", , May 2003
- 21 Vahid Lotfi, Radin Espandar, "A study of joint effects in the earthquake analysis of concrete arch dams ", , March 2002
- 22 [en-name N/A], Vahid Lotfi, Omid Omid, "Investigating the effects of contraction joints on the seismic response of concrete arch dams ", , February 2002
- 23 Omid Omid, Faramarz Rofouee, Vahid Lotfi, "Evaluation of the nonlinear dynamic response of concrete arch dams including water compressibility ", , February 2002
- 24 Vahid Lotfi, Radin Espandar, "application of boundary element method in frequency response functions of concrete gravity dams ", , March 2001
- 25 Ahmad Taher Shamsi, Vahid Lotfi, "longitudinal and lateral migration rate of sistan river bends ", , September 2000
- 26 Vahid Lotfi, Mohammad Reza Sharghi, "Direct frequency domain analysis of concrete gravity dams ", , May 2000
- 27 Vahid Lotfi, Mohammad Reza Sharghi, "Frequency response functions of concrete gravity dams including hydrodynamic effects ", , March 2000
- 28 Vahid Lotfi, Mohammad Reza Sharghi, "Earthquake response of concrete gravity dams by combination of finite element and boundary integral eguations ", , December 1999
- 29 Radin Espandar, Vahid Lotfi, G.Razaghpour, "Seismic analysis of concrete arch dams by smeared crack approach ", , December 1999
- 30 Radin Espandar, Vahid Lotfi, "Smeared crack approach in dynamic analysis of concrete arch dams ", , April 1999
- 31 Vahid Lotfi, "Nonlinear discrete crack model of concrete arch dams ", , January 1997
- 32 Vahid Lotfi, "Nonlinear dynamic analysis of shahid rajae arch dam ", , January 1996
- 33 Vahid Lotfi, Faramarz Khoshnudian, "Dynamic analysis of concrete gravity dams ", , May 1987

Taught Courses

#	Course	Description	Headlines	Date

1	Finite Element Method	Review of matrix analysis of structures; Weighted residual approach and its application for solving differential equations; Two dimensional stress analysis (CST, LST, QST,...); Three dimensional stress analysis (Pyramid , Brick and Wedge types of ele		Fall 2021
2	Strength of Material (II)	Chap. 7: Transformations of Stress and Strain Chap. 9: Deflection of Beams Chap.10: Columns Chap.11: Energy Methods		Fall 2021
3	Non-Linear Finite Element	Nonlinear Finite Element Modeling of Structures		Spring 2021
4	Strength of Material (II)	Chap. 7: Transformations of Stress and Strain Chap. 9: Deflection of Beams Chap.10: Columns Chap.11: Energy Methods		Spring 2021
5	Finite Element Method	Review of matrix analysis of structures; Weighted residual approach and its application for solving differential equations; Two dimensional stress analysis (CST, LST, QST,...); Three dimensional stress analysis (Pyramid , Brick and Wedge types of ele		Fall 2020
6	Strength of Material (II)	Chap. 7: Transformations of Stress and Strain Chap. 9: Deflection of Beams Chap.10: Columns Chap.11: Energy Methods		Fall 2020