

Curriculum Vitae

Mojtaba Lezgy-Nazargah, PhD

(Last update: August, 2017)

Personal Information

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Professional Background

Associate Professor: Hakim Sabzevari University, Civil Eng. Dep., (2016 to date)
Head of Civil Eng. Dep: Hakim Sabzevari University, Civil Eng. Dep., (2014-2016)
Assistant Professor: Hakim Sabzevari University, Civil Eng. Dep., (2011-2016)
Lecturer: PN University, Neyshabour Branch, (2010-2011)

Educational Background

PhD: Civil and Structural Engineering, K. N. Toosi University of Technology, Tehran, Iran (2008-2011)
MS: Civil and Structural Engineering, K. N. Toosi University of Technology, Tehran, Iran (2006-2008)
BS: Civil Engineering, Shahrood University of Technology, Shahrood, Iran (2002-2006)
High School: Iranian High School Diploma in Math. Branch, Ferdowsi High School, Neyshabour, Iran (1998-2002)

Thesis

PhD: "Static and dynamic analysis of laminated composite and sandwich beams containing piezoelectric layers using a refined high-order theory" under supervision of Prof. S.B. Beheshti-Aval and in attendance of Prof. M. Shariyat.
MS: "Active vibration control of beams by piezoelectric materials" under supervision of Prof. S.B. Beheshti-Aval

Technical Reviewer

Applied Mathematical Modeling
Archive of Applied Mechanics

Steel and Composite Structures

Structural Engineering and Mechanics

Journal of Solid Mechanics

International Journal of Engineering, Science and Technology

Sharif Journal, Civil Engineering

Journal of Solid and Fluid Mechanics

Multidiscipline Modeling in Materials and Structures

Advances in Nano Research

Coupled Systems Mechanics

Research Interests

Active and Passive vibration control of structures

Smart materials and structures

Laminated composite structures

Development of refined theories for plates and shell structures

Computational Mechanics

Computational Soil Mechanics

Contact and frictional modeling

Application of micromechanical approaches in solid mechanics

Structural control and health monitoring

Soil-Structure Interaction

Nonlinear analysis of steel and reinforced concrete structures

Finite element modeling of reinforced concrete structures

Seismic behavior of masonry structures

Theory of elasticity with couple-stress

Lectured Courses

MS: Theory of Elasticity, Finite Element Method, Theory of plates and shells, Advanced Reinforced Concrete Design

BS: Statics, Strength of Materials I, Design of Concrete Structures I & II, Dynamics, Fluid Mechanics I, Soil Mechanics I, Technical Drawing, Metering and Calculation of Projects, Structural Analysis I, Fundamentals of Architectural Design and Urbanization

M.Sc Students

..... M. Ali Yousefzadeh

Design and fabrication of a cement-piezoelectric composite sensor for measurement of stress in concrete

		structures
.....	Majid Sekhavati	Free vibration and buckling analysis of laminated magneto-electro-elastic plates resting on elastic foundations using analytical methods
2017	Sima Salahshuran	Parametrized mixed theory for static analysis of laminated composite plates
2017	Sara Meshkani	Static analysis of FGM plates using a parametrized Mixed theory
2017	Hassan Fadavi	The effect of groundwater levels on seismic response of structures, including soil-structure interaction
2017	Hossein Divandar	Seismic analysis of steel moment frames under vertical component of earthquake with considering soil-structure interaction effects
2017	Vahid Tadayonfar	Seismic analysis of steel moment frames with considering soil-structure interaction: comparison of 2D and 3D finite element modeling
2017	Nasim Ekrami	Evaluation of the effects of different bond-slip laws on the flexural response of FRP reinforced concrete beams
2017	Hassan Koshki	Seismic evaluation of reinforced concrete beam-column joints designed according to ABA code
2017	Vahid Khalooyi	Effects of soil-structure interaction on the seismic response of reinforced concrete frames
2016	Hadi Keykhosravi	Assessment of buckling behavior of concrete filled double skin steel tubes (CFDST)
2016	S. Ali Movlavipour	Seismic analysis of concrete frames on slope lands with considering soil-structure interaction effects
2016	S. Ali Hejazian	Seismic assessment of reinforced concrete beam-column joints strengthened with fibers
2016	Mohammad Hajjar	Evaluation of seismic and buckling behaviors of steel shell structures
2016	Ehsan Hajjar	Determination of parameters affecting the ultimate load capacity of plate girder made of deep corrugated webs
2016	Ali Dovlatabadi	Evaluation of the effects of boundary elements of reinforced concrete shear walls on the global ductility of steel frames

2016	Abbas Azimifard	Seismic performance of steel frames with reduced beam section connections considering soil-structure interaction
2015	Hossein Nabavifard	The effects of steel beams embedded in the concrete shear walls on the lateral resistance of moment frames
2015	Mahdi Dezhangah	Finite element modeling of FRP reinforced concrete beams with considering interlayer slip effects
2015	Hossein Nabavi-fard	The effects of steel beams embedded in the concrete shear walls on the lateral resistance of moment frames
2015	Samaneh Mesgar	Prediction of mechanical properties of masonry materials using micromechanical and homogenization methods
2015	Mohsen Divadari	Vibration reduction of beam structures using shunted piezoelectric damping
2015	Ali Nejatipur	Progressive damage analysis of laminated composite beams using a high order theory
2015	Amir Tazarghi	Pushover analysis of steel frames containing double skin composite shear wall system
2014	Ramin Soozani	Finite element analysis of curved beams with considering the effects of the transverse shear stresses
2014	Jaber Ramshini	Evaluation of Bending and Shear Behavior of Bubble Deck Floor System using Finite Element Method
2014	Mohsen Abgol	Analysis of thick plates using a refined high order theory
2014	Leyla Kafi-Sani	Analysis of composite steel-concrete beams using a higher order theory
2014	Naser Cheraghi	Static analysis of composite plates including anisotropic functionally graded magneto-electro-elastic layers
2014	Hadi Hosseini-Nasab	Seismic Analysis of Steel Frames with Considering Soil-Structure Interaction Effects
2014	Mostafa Estaji	Prediction of the properties of concrete via micromechanic methods
2014	Mahmood Ehsani-Asl	Numerical evaluation of vertical cut slopes stabilized using cast-in-situ piles
2013	Mehrzad Sarhangzadeh	Optimum seismic design of cold-formed steel structures

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| 2013 | Ali Abbasi | Retrofit of reinforced concrete shear walls with FRP |
| 2013 | Mohammad Nashveh | Assessment of the concrete slabs reinforced with FRP textile |
| 2012 | Hamid Rayati | Optimization of composite laminated structures using genetic algorithms and finite element analysis (<i>in collaboration with Prof. S.B. Beheshti-Aval</i>) |
| 2012 | Selda Shahveghar | Static analysis of laminated composite beams with embedded shear piezoelectric layers (<i>in collaboration with Prof. S.B. Beheshti-Aval</i>) |

Honors

Winner of the best researcher award of Hakim Sabzevari University in 2015
 Winner of the best researcher award of K. N. Toosi University of Technology in 2010

Books

M. Lezgy-Nazargah, R. Shadnia, Principles of Reinforced Concrete Design, Hakim Sabzevari Pub. (2015)

International Journal papers

M. Lezgy-Nazargah, Nonlinear finite element analysis of reinforced concrete beams using a layered global-local kinematic, (submitted)

G.A. Farzi, **M. Lezgy-Nazargah**, A. Imani, M. Eydi, M. Darabi, Mechanical, thermal and microstructural properties of OAT powder-epoxy resin composites, (submitted)

M. Lezgy-Nazargah, M. Dezhangah, S. Sepehrinia, The effects of different FRP/concrete bond-slip laws on the 3D FE modeling of retrofitted RC beams - A sensitivity analysis, (submitted)

M. Lezgy-Nazargah, H. Eskandari, Effective coupled thermo-electro-mechanical properties of piezoelectric structural fiber composites: a micromechanical approach, *Journal of Intelligent Material Systems and Structures*, DOI: 10.1177/1045389X17711787

M. Lezgy-Nazargah, A generalized layered global-local beam theory for elasto-plastic analysis of thin-walled members, *Thin-Walled Structures* 115 (2017) 48–57.

M. Lezgy-Nazargah, Assessment of refined high-order global-local theory for progressive failure analysis of laminated composite beams, *Acta Mechanica*, 2017, 228(5) 1923–1940

M. Lezgy-Nazargah, S.M. Divandar, P. Vidal, O. Polit, Assessment of FGPM shunt damping for vibration reduction of laminated composite beams, *Journal of Sound and Vibration*, (2017), 389, 101–118.

- M. Lezgy-Nazargah**, N. Cheraghi, An exact Peano Series solution for bending analysis of imperfect layered FG neutral magneto-electro-elastic plates resting on elastic foundations, *Mechanics of Advanced Materials and Structures*, (2017), 24(3) 183-199
- H. Eskandari-Naddaf, **M. Lezgy-Nazargah**, H. Bakhshi, Optimal methods for retrofitting corrosion-damaged reinforced concrete columns (2016), *Procedia Computer Science*, 101, 262 – 271
- M. Lezgy-Nazargah**, A high-performance parametrized mixed finite element model for bending and vibration analyses of thick plates, *Acta Mechanica*, (2016), 227(12), 3429–3450
- M. Lezgy-Nazargah**, A three-dimensional Peano series solution for the vibration of functionally graded piezoelectric laminates in cylindrical bending, *Scientia Iranica A*, (2016), 23(3), 788-801
- M. Lezgy-Nazargah**, Efficient coupled refined finite element for dynamic analysis of sandwich beams containing embedded shear-mode piezoelectric layers, *Mechanics of Advanced Materials and Structures*, (2016), 23(3): 337-352
- M. Lezgy-Nazargah**, P. Vidal, O. Polit, NURBS-based isogeometric analysis of laminated composite beams using refined sinus model, *European Journal of Mechanics A/Solids*, (2015), 53, 34-47
- M. Lezgy-Nazargah**, Fully coupled thermo-mechanical analysis of bi-directional FGM beams using NURBS isogeometric finite element approach, *Aerospace Science and Technology*, (2015), 45, 154–164
- M. Lezgy-Nazargah**, A micromechanics model for effective coupled thermo-electro-elastic properties of Macro Fiber Composites with interdigitated electrodes, *Journal of Mechanics* (2015), 31(2), 183 – 199
- M. Lezgy-Nazargah**, A three-dimensional exact state-space solution for cylindrical bending of continuously non-homogenous piezoelectric laminated plates with arbitrary gradient composition, *Archive of Mechanics* (2015), 67(1), 25-51
- M. Lezgy-Nazargah**, L. Kafi, Analysis of composite steel-concrete beams using a refined high-order beam theory, *Steel and Composite Structures*, (2015), 18(6), 1353-1368
- M. Lezgy-Nazargah**, An isogeometric approach for the analysis of composite steel–concrete beams, *Thin-Walled Structures*, (2014), 84, 406–415
- M. Lezgy-Nazargah**, P. Vidal, O. Polit, “An efficient finite element model for static and dynamic analyses of functionally graded piezoelectric beams” *Composite Structures* (2013), 104, 71-84
- S.B. Beheshti-Aval, S. Shahvaghari-Asl, **M. Lezgy-Nazargah**, M. Noori, “A finite element model based on coupled refined high-order global-local theory for static analysis of electromechanical embedded shear-mode piezoelectric sandwich composite beams with various widths” *Thin Walled Structures*, 2013, 72:139-163
- M. Lezgy-Nazargah**, Farahbakhsh, M., Optimum material gradient composition for the functionally graded piezoelectric beams, *International Journal of Engineering, Science and Technology*, 2013, 5(4), 80-99

- M. Lezgy-Nazargah**, S.B. Beheshti-Aval, “Coupled refined layerwise theory for dynamic free and forced responses of piezoelectric laminated composite and sandwich beams”, *Meccanica*, 2013, 48(6):1479–1500
- S.B. Beheshti-Aval, **M. Lezgy-Nazargah** “A new coupled refined high-order global-local theory and finite element model for electromechanical response of smart laminated /sandwich beams”, *Archive of Applied Mechanics*, 2012, 82(12), 1709-1752
- M. Lezgy-Nazargah**, M. Shariyat and S.B. Beheshti-Aval "A refined high-order global-local theory for finite element bending and vibration analyses of the laminated composite beams" , *Acta Mechanica*, 2011, 217:219-242
- M. Lezgy-Nazargah**, S.B. Beheshti-Aval and M. Shariyat "A refined mixed global-local finite element model for bending analysis of multi-layered rectangular composite beams with small widths", *Thin Walled Structures*, 2011, 49:351-362
- S.B. Beheshti-Aval, **M. Lezgy-Nazargah**, P. Vidal, O. Polit, “A Refined Sinus Finite Element Model for the Analysis of Piezoelectric-Laminated Beams”, *Journal of Intelligent Material Systems and Structures*, 2011, 22(3):203-219
- S.B. Beheshti-Aval, **M. Lezgy-Nazargah**, “Assessment of velocity-acceleration feedback in optimal control of smart piezoelectric beams”, *Smart Structures and Systems*, 2010, 6(8):921-938
- S.B. Beheshti-Aval, **M. Lezgy-Nazargah** “A finite element model for composite beams with piezoelectric layers using a sinus model”, *Journal of Mechanics*, 2010, 26(2):249-258

International Conference papers

- P. Vidal, O. Polit, S.B. Beheshti-Aval, **M. Lezgy-Nazargah**, “Refined Sinus Finite Elements: Application to Thermal and Piezoelectric Coupling”, *Design, Modelling and Experiments of Advanced Structures and Systems, DEMEASS IV, Luxembourg, 2011*

Research Projects

- 2017- "The use of parametrized variational principles for the finite element analysis of thick plates" *for Hakim Sabzevari University, Iran*
- 2017- " Assessment of the effects of the interlayer slip on the behavior of anisotropic magneto-electro-elastic plates" *for Hakim Sabzevari University, Iran*