

Shahin Eskandari

CONTACT INFORMATION

2nd Unit, No.9, Taleghani Dead-end
Shahab St., Payambar Blvd.
Tehran, Iran.

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RESEARCH INTERESTS

- Solid Mechanics
- Higher order continuum theory
- Mechanics of Nano/Bio Materials
- Smart Materials
- MEMS/NEMS
- Wave Propagation

EDUCATION

Sharif University of Technology, Tehran, Iran.

M.Sc., Mechanics of Structures, 2009-2012

- Thesis Topic: *Love Wave Propagation In Functionally Graded Piezo-Electro-Magnetic Material*
- Advisors: Professor H.M. Shodja and Dr. M. Eskandari
- GPA: 17.67/20

Tabriz University, Tabriz, Iran.

B.Sc., Civil Engineering, 2005-2009

- Honor: Ranked 2nd among 36 students entered in 2005.
- GPA: 17.47/20

REFEREED JOURNAL PUBLICATIONS

1. Shodja H.M., **Eskandari S.**, Eskandari M., "Shear horizontal surface acoustic waves in functionally graded magneto-electro-elastic half-space.", *Journal of Engineering Mathematics*, 1-18, **2015**, 10.1007/s10665-015-9798-6.
2. **Eskandari S.**, Shodja H.M., "Shear horizontal surface acoustic waves in a magneto-electro-elastic system: Functionally graded layer bonded to a homogeneous substrate.", *Journal of the Mechanical Behavior of Materials*, 25 (1-2), 1-13, **2016**, 10.1515/jmbm-2015-0024.

PAPERS IN PREPARATION

1. Mohajer M., Eskandari M., **Eskandari S.**, "Rayleigh Wave Propagation in Anisotropic Layer/Half-Space System with Imperfect Interface."

HONORS AND AWARDS

- Ranked 12th among over 15,000 participants in National Graduate Study Entrance Exam, Iran. 2009
- Ranked 2nd among 36 student entered in 2004 in Civil Engineering Department, Tabriz University. 2009
- Ranked 4200th among over 500,000 Participants in National University Entrance Exam, Mathematics and Physics Discipline, Iran. 2004

RESEARCH
EXPERIENCE

Researcher Assistant

2010 to present

Department of Civil Engineering, Sharif University of Technology
Supervisor: Professor H.M. Shodja

- Studying propagation of shear horizontal surface wave in magneto-electro-elastic half-space considering full-Dynamic Maxwell theory 2015
- Derivation of J-Integral using energy variations and associated methods.2010
- Determination of stress-intensity for the crack located at the interface of a bimaterial under pure tension using Green function. 2010
- Determination of the scattered fields of an SH-wave by an eccentric coating fiber ensemble using DEIM. 2010

REFEREE SERVICE

Reviewed some manuscripts under supervision of Prof. Shodja

- International Journal of Solids and Structures. 2015
- Journal of Sound and Vibration. 2014
- Engineering Fracture Mechanics. 2012

SELECTED
ADVANCED
COURSES

Fall Sem. 2009-2010

- Advanced Engineering Mathematics, Grade: 17.5/20
Instructor: Prof. Rahimzadeh Rofooei
- Theory of Elasticity, Grade: 17.6/20
Instructor: Prof. H.M. Shodja
- Finite Elements Method, Khonsari V., Ph.D, Grade: 18.5/20
Instructor: Dr. V. Khonsari

Spring Sem. 2009-2010

- Fracture Mechanics, Grade: 17/20
Instructor: Prof. H.M. Shodja
- Micromechanics of Defects in Solids Grade: 17/20
Instructor: Prof. H.M. Shodja
- Mechanics of Continuum Medium , Grade: 16/20
Instructor: Dr. M. Asghari

WORKING
EXPERIENCE

Teaching Assistant

- Advanced Engineering Mathematics, Dr. M. Eskandari, Civil Engineering department, Sharif University of Technology Fall 2016
- Stability of Structures, Dr. M. Eskandari, Civil Engineering department, Sharif University of Technology Fall 2015
- Physics Mechanics and Thermodynamic, Dr. K. Seyed Yaghoubi, Civil engineering department, Tabriz University 2005-2007

Senior Structural Engineer

- Metra Consulting Engineers Company 2014-2015
Structural design of buildings, bridges and industrial structures
- Haraz-rah Consulting Engineers Company 2009-2014
Design of numerous bridges with different superstructure systems and various construction methods like prestressed concrete balanced cantilever bridges, precast reinforced and prestressed concrete girder bridge, and steel plate girder bridge.

LANGUAGE
PROFICIENCY

English: Fluent
TOEFL iBT, Total Score: 103
Reading: 28, Listening: 28, Speaking: 23, Writing: 24
Farsi: Native

24 Sept. 2016

SOFTWARE SKILLS *Programming:*

- Familiar with Fortran and Python

Mathematical Analysis Software:

- Proficient in Mathematica, MATLAB, and MATHCAD
- Familiar with Maple

FEM Modeling Software:

- Familiar with ABAQUS and COMSOL Multiphysics

Scientific Publishing Software:

- L^AT_EX and WinEdt.

Civil Engineering Software:

- Proficient in SAP2000, ETABS, SAFE, CSI-Bridge, and AUTOCAD.
- Familiar with MIDAS Civil.

REFERENCES

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