

Masoumeh Soltani

Assistant Professor

Nationality: Iranian

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Educations:

Ph.D. Structural Engineering

K.N.Toosi University of Technology (KNTU), Tehran, Iran (2009-2014)

Title of Dissertation

Linear and non-linear stability analysis of thin-walled beams with variable cross section.

M.Sc. Structural Engineering

K.N.Toosi University of Technology (KNTU), Tehran, Iran (2007-2009)

Title of Dissertation

Determination of buckling loads and vibration frequencies of non-prismatic members using power series method.

B.Sc. Civil Engineering

K.N.Toosi University of Technology (KNTU), Tehran, Iran (2002-2007)

Publications:

Journal:

- Asgarian B, Soltani M. Lateral-Torsional Buckling of Non-Prismatic Thin walled Beams with Non-Symmetric Cross-Section. Procedia Engineering, 2011; 14: 1653-1664.
- Asgarian B, Soltani M, Mohri F. Lateral-Torsional Buckling of Tapered Thin-walled Beams with Arbitrary Cross-Section. Thin-Walled Structures, 2013; 62: 96–108.

- Soltani M, Asgarian B, Mohri F. Buckling and free vibration analyses of tapered thin-walled beams by power series method. Journal of constructional steel research 2014, 96: 106-126.
- Soltani M, Asgarian B, Mohri F. Finite element method for stability and free vibration analyses of non-prismatic thin-walled beams. Thin-Walled Structures, 2014; 82: 245-261.
- Soltani M, Asgarian B, Mohri F. Stability and Vibration Analyses of tapered columns Resting on One or Two-Parameter Elastic Foundations. Numerical Methods in Civil Engineering, 2014; 1(2): 57-66.

Conference:

- Asgarian B, Soltani M. Stability Analysis of Non-Prismatic Columns. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2009), Jun, 2009, Rhodes, Greece.
- Asgarian B, Soltani M. Vibration and Stability Analysis of Non-Prismatic Timoshenko Beams on Elastic Foundation. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2009), Jun, 2009, Rhodes, Greece.
- Asgarian B, Soltani M. "Lateral-Torsional Buckling of Non-Prismatic Thin walled Beams with Non-Symmetric Cross-Section", Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), January, 2011, Hong Kong, China.
- Soltani M, Asgarian B, Mohri F. Finite element method for stability and vibration analyses of thin-walled beams with arbitrary cross-section. Advances In Structural Engineering and Mechanics (ASEM13), September 8-12 20013, Jeju, Korea.
- Soltani M, Asgarian B, Mohri F. Finite element method for stability analysis of tapered thin-walled beams under lateral loads. Advances In Structural Engineering and Mechanics (ASEM13), September 8-12 20013, Jeju, Korea.

– عسگریان، پشت دار، سلطانی. تحلیل تیرهای باربر فولادی سرد نورد شده تحت خمش و نیروی محوری متغیر. اولین کنفرانس بین المللی سازه و فولاد. تهران، ایران، ۱۳۹۳.

Courses taught:

- Statics
- Mechanics of material I
- Dynamic
- Design of Steel Structures I & II
- Stability of Structures
- Finite Element Methods
- Mathematics and differential equation
- ESP

Field of Interest:

- Stability analysis of elastic members.
- Linear and non-linear stability analyses of thin walled beams.
- Linear stability analysis of beam-columns with variable cross section resting on elastic foundation.
- Nonlinear analysis of structures.
- Vibration analysis of structures.
- Dynamics
- Design of steel structures
- Mathematics
- Energy and numerical methods

Languages:

English - Bilingual
Persian - Native fluency
French - Good fluency
Spanish - Beginner