CURRICULUM VITAE

Ma'en S. Sari

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EDUCATION

Ph.D.   - Mechanical Engineering, New Mexico State University, New Mexico, USA, May 2011.
       - Cumulative GPA: 4.0/4.0

M.Sc.   - Mechanical Engineering, Jordan University of Science and Technology, Jordan, May 2005.

B.Sc.   - Mechanical Engineering, Jordan University of Science and Technology, Jordan, August 2002.

CURRENT POSITION: Assistant Professor, German Jordanian University, Amman, Jordan.

EXPERIENCE

- 09/2014- present: **Assistant Professor**, German Jordanian University, Amman, Jordan.

- 09/2012- 09/2014: **Assistant Professor**, King Faisal University, Al-Hasa, Saudi Arabia.

- 08/2011-05/2012: **Assistant College Professor**, New Mexico State University, Las Cruces, NM, USA.

- 01/2008-05/2011: **Research Assistant**, New Mexico State University, Las Cruces, NM, USA.

- 02/2007-01/2008: **Teaching Assistant,** New Mexico State University, Las Cruces, NM, USA.

- 02/2003-05/2005: **Teaching Assistant**, Jordan University of Science and Technology, Irbid, Jordan.

- 09/2005-05/2006: **Teaching Assistant** (Part Time), Jordan University of Science and Technology, Irbid, Jordan.

TEACHING INTERESTS

- Mechanical Vibrations.
- Engineering Mechanics, Statics and Dynamics.
- Theory of Machines.
- Mechanics of Materials.
- Aerospace Structures.
- Modern Control Theory.
- Fluid Mechanics.

RESEARCH INTERESTS

- Vibrations of continuous systems.
- Stability analysis.
- Nonlinear dynamics
- Nonlocal models of continuous systems.

PROFESSIONAL AWARDS

- 2011 Honors Graduate Certificate from New Mexico State University Graduate School in recognition of outstanding academic success and maintaining the highest graduate grade point of 4.0.

- 2007-2009 Teaching Assistantship from the Mechanical and Aerospace Engineering Department, New Mexico State University, NM, USA.

- 2008-2011 Internship and Research Assistantship on a PhD Project Funded from NASA.

PROFESSIONAL MEMEBERSHIPS

- American Society of Mechanical Engineers (ASME).
- Jordanian Engineers Association.

COMPUTER SKILLS

- Matlab
- Mathematica
- AutoCAD
- MS-Office
- Latex

REFERRED PUBLICATIONS

Journal Publications:

1. Haddad, O. M., Al-Nimr, M. A. and Sari M. S.: Forced Convection Gaseous Slip Flow in Circular Micro-Channels, *Transport in Porous Media* 70 (2) (2007) 167-179.

2. Butcher, E. A., Sari, M., Bueler, E., Carlson, T.: Magnus' Expansion for time periodic systems: Parameter-dependent approximations, *Communi Nonlinear Sci Simulat* 14 (2009) 4226-4245.

3. Sari, M. and Butcher, E.A.: Natural Frequencies and Critical Loads of Beams and Columns with Damaged Boundaries using Chebyshev Polynomials, *International Journal of Engineering Science* 48, 862-873 (2010).

4. Sari, M., Nazari, M., and Butcher E.A.: Effects of Damaged Boundaries on the Free Vibration of Kirchfoff Plates: Comparison of Perturbation and Spectral Collocation Solutions, *Journal of Computational and Nonlinear Dynamics* 7 (2012) 011011-1-11.

5. Sari, M. and Butcher E.A.: Free Vibration Analysis of Non-Rotating and Rotating Timoshenko Beams with Damaged Boundaries Using the Chebyshev Collocation Method, *International Journal of Mechanical Sciences* 60 (1) (2012) 1-11.

6. Sari, M.S. and Butcher, E.A.: Free Vibration Analysis of Rectangular and Annular Mindlin Plates with Undamaged and Damaged Boundaries by the Spectral Collocation Method, *Journal of Vibration and Control* 18 (11) (2012) 1722-1736.

7. Sari, M.S. and Butcher, E.A.: Three Dimensional Vibration Analysis of Rectangular Plates with Undamaged and Damaged Boundaries by the Spectral Collocation Method, *International Journal of Acoustics and Vibration* 19(1) (2014) 1-8.

8. Sari, M.S: Axisymmetric Free Vibration Analysis of Annular and Circular Mindlin Plates Using the Nonlocal Continuum Theory, Research Journal of Applied Sciences, Engineering and Technology, 9 (8) (2015) 561-571.

9. Sari, M.S.: Free Vibration Analysis of Annular Sector Mindlin Plates Using the Nonlocal Continuum Theory, *International Journal of Mechanical Sciences* 96-97 (2015) 25-35.

10. Sari, M.S. and Al-Qaisia, A.: Primary Resonance Analysis of Nonlinear Non-local Euler-Bernoulli Beam Using Eringin's Elasticity Theory (under review)

11. Al-Kouz, W., Sari, M., Kiwan, S, AlKhaldi: A Rarefied Flow and Heat Transfer Charasteristics Over a Vertical Stretched Surface (under review)

12. Sari, M. and Al-Kouz, W. : Vibration Analysis of Non-Uniform Orthotropic Kirchhoff Plates Embedded in Elastic Medium Based on Nonlocal Elasticity Theory (under review)

Conference Publications:

1. Butcher, E. A., Sari, M., Bueler, E., Carlson, T.: Magnus' Expansion for Time Periodic Systems: The 12th conference on Nonlinear Vibrations, Dynamics, and Multibody Systems, Blacksburg, VA, June 1-5, 2008.

2. Butcher, E.A, Sevostianov,I., Sari, M., Al-Shudeifat, M.: Use of Nonlinear Vibration Frequencies and Electrical Conductivity Measurements in the Separation of Internal and Boundary Damage in Structures, *Proceedings of IMECE2008 ASME International Mechanical Engineering Congress and Exposition*, Boston, MA, Oct. 31-Nov.6, 2008.

3. Sari, M. and Butcher, E.A.: Natural Frequencies and Critical Loads of Beams and Columns with Damaged Boundaries Using Chebyshev Polynomials: 9th Annual Raytheon Company Mechanical, Materials and Structural Technology Network Symposium (MMSTN09) University Session, Tucson, AZ, October 22nd, 2009.

4. Butcher, E.A. and Sari M.: Free Vibration Analysis of Kirchoff Plates with Damaged Boundaries by the Chebyshev Collocation Method, Symposium on Mechanics of Slender Structures (MOSS 2010), Donostia - San Sebastian, Spain, July 21-23, 2010.

5. Sari, M., Nazari, M., and Butcher, E.A., Free Vibration Analysis of Kirchoff Plates with Damaged Boundaries by the Chebyshev Collocation and Perturbation Methods, ASME Conference on Smart Materials, Adaptive Structures, and Intelligent Systems, Philadelphia, PA, Sep. 28- Oct. 1, 2010.

6. Sari, M.S. and Butcher, E.A.: Three Dimensional Vibration Analysis of Rectangular Plates with Undamaged and Damaged Boundaries by the Spectral Collocation Method, ASME 2011 International Design Engineering Technical Conferences (IDETC) and Computers and Information in Engineering Conference (CIE), Washington, DC, August 28-31, 2011.

7. Sari, M.S. and Qawasmeh, B.: Vibration and Primary Response Analysis of Non-Local Euler-Bernoulli Beam on Nonlinear Foundation Subjected to Thermal and Axial Magnetic Loads Using Eringen's Elasticity Theory, ASME Conference on Smart Materials, Adaptive Structures and Intelligent Systems, Colorado Springs, Colorado, September 21-23, 2015.

REFERENCES

Available upon request.