

DR. HOSSEIN ASHRAFI

Bibliography

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Institution: University of Kashan;	URL: https://faculty.kashanu.ac.ir/hashrafi ;
Faculty: Mechanical Engineering;	E-mails: hashrafi@kashanu.ac.ir or hhashrafi@gmail.com ;
Department: Applied Design and Solid Mechanics;	Address: No. 316, 3 rd Floor, Faculty of Mech. Eng., University of Kashan, P.O. Box 8731751167, Ghotbravandi Blvd., Kashan, Iran ;

Education

Sep. 2010 – August 2014	Ph.D. of Mechanical Engineering: K.N. Toosi University of Technology, Iran; Graduated with First Class Honors and GPA 19.43 out of 20.
Sep. 2005 – August 2008	M.Sc. of Mechanical Engineering: Shiraz University, Iran; Graduated with First Class Honors and GPA 17.67 out of 20.
Sep. 2001 – August 2005	Bachelor of Engineering, Chamran University of Ahvaz (Jondi Shapour), Iran; Graduated with First Class Honors and GPA 17.2 out of 20.
Sep. 1997 – June 2001	Diploma of Mathematics: Sanyei–Far High School of SAMPAD, Tehran, Iran; Graduated with First Class Honors.

Employment

Sep. 2012 – Sep. 2014	Instructor as University Scholarship Programs: Department of Applied Design, Faculty of Mechanical Engineering, University of Kashan, Iran;
Sep. 2014 – Present	Assistant Professor: Faculty of Mechanical Engineering, University of Kashan, Iran;

Skills & Abilities

- Computational and Solid Mechanics;
- Biomechanics and Tissue Engineering;
- Contact and Impact Dynamics;
- Visco – Elasticity, Thermoelasticity and Plasticity;
- Multi–Scale Modeling of Polymers and Smart Materials;

Patents

- An Instrument for Measurement of Creep Compliance in Biological Viscoelastic Solids, Iranian Patent Office, Patent No. 58038.
- An Instrument for Measurement of Relaxation Modulus in Biological Viscoelastic Solids, Iranian Patent Office, Patent No. 58039.
- A Measurement System for Identification of Time-Dependent Poisson's Ratios in Biological Viscoelastic Solids, Iranian Patent Office, Patent No. 58536.
- A Combined Hardware/Software System for Identification of Interfacial Contact Pressure between Biological Viscoelastic Solids, Iranian Patent Office, Patent No. 58534.

Academic Experiences

- **2016-Present:** Invited Referee for Iranian Research Organization for Science and Technology, Ministry of Science, Research & Technology, Tehran.
- **2016-Present:** Invited Referee for Iran National Science Foundation, Tehran.
- **2012 – 2018:** Professor of Engineering College, University of Applied Science and Technology, Ministry of Science, Research & Technology, Tehran.
- **2008 – Present:** Invited Reviewer for International Journals likes “International Journal of Mechanical Sciences”, “Journal of Biomedical Physics and Engineering”, “Journal of the Mechanical Behavior of Biomedical Materials”, “Bioinspired, Biomimetic and Nanobiomaterials” and “Medical & Biological Engineering & Computing”.
- **2011 – 2014:** Senior Researcher, Centre of Excellence for Research in Advanced Materials and Structures, School of Mechanical Engineering, K.N. Toosi University, Science and Research Branch of Tehran.
- **2008 – 2015:** Senior Researcher and Designer, Department of Applied Design, Science and Research Centers of SANNAT, BFDK and JAS, MOD, Tehran.
- **2006 – 2010:** Senior Researcher, Center of Excellent in Computational Mechanics, Department of Mechanical Engineering, Shiraz University, Science and Research Branch of Shiraz.

Selected Research Projects

- “Finite Element Modeling of Contact Problems in Functionally Graded Viscoelastic Structures”; Faculty of Mechanical Engineering, University of Kashan, December 2016.
- “Finite Element Analysis on Effects of Bar Framework Material Misfit on the Stress Distribution of an Overdenture-Retaining Bar System”; Faculty of Mechanical Engineering, University of Kashan, December 2018.
- “The use of Graded Elements for Dynamic Analysis of Advanced Smart Structures”; Faculty of Mechanical Engineering, University of Kashan, December 2015.
- “Dynamic Characterization and Modeling of Human Postural Steadiness”; Faculty of Mechanical Engineering, University of Kashan, November 2013.
- “Postural Steadiness Analysis Software”, University of Social Welfare and Rehabilitation Sciences, Tehran, April 2013.
- “Relaxation and Creep Analysis of Contact – Impact Problems for Nonhomogeneous Viscoelastic Media made of Functionally Graded Materials”; under Supervision of Prof. Shariyat, K.N. Toosi University of Technology, September 2014;
- “Numerical Analysis of Contact – Impact Problems for Viscoelastic Solids Using A Finite Element Formulation”; under Supervision of Prof. Mahzoon and Prof. Farid, Shiraz University, September 2008;
- “Impact and Perforation Analysis of Sandwich Panels with Visco-Hyperelastic Cores”; K.N. Toosi University of Technology, Tehran, 2011-2012.
- “Biomedical Modeling of a Human Head – Neck System for the Analysis of Vibration and Impact Damage”; K.N. Toosi University of Technology, Tehran, 2011–2013.
- “Analysis of Penetration and Perforation of Projectiles into Different Types of Targets”; SANAT and JAS Research Centers, Tehran, 2009–2015.
- “Laboratory Design of Impact Dynamics”; BFDK, 2012-2013.

Membership of Scientific Societies

- Member of Iranian Research Organization for Science and Technology
- Member of Iranian Society of Mechanical Engineering
- Member of Iranian Society of Biomedical Engineering
- Member of Iranian Society of Polymer Science and Technology
- Member of Iranian Society of Surface Science and Engineering
- Member of Iranian Society of Nano Science and Technology

Teaching Experiences

- * Finite Element Methods
- * Statics and Dynamics
- * Solid Mechanics
- * Viscoelasticity
- * Biomechanics
- * Computer-Aided Design
- * Mechanical Vibrations
- * Engineering Drawing
- * Mechanical Engineering Design
- * Advanced Engineering Mathematics
- * Impact and Contact Mechanics
- * Mechanics of Solid Polymers

Workshop and Professional Courses

- * Finite Element Methods for Engineering Applications
- * Engineering Analyzes by ANSYS & Ls-Dyna
- * Impact and Damage Mechanics
- * Biomechanics and Tissues Engineering
- * Modal Testing and Analysis
- * Computer Programming with MATLAB
- * Contact and Friction Mechanics
- * How to Prepare and Publish a Research Paper?

Publications

✓ Books

- Computational Galerkin Methods (in Persian), 2018.
- Computer-aided Mechanical Engineering Design (in Persian), 2018.
- Boundary Element Method with its Computational Algorithms, to be published.
- Contact – Impact Mechanics, to be published.

✓ Selected Journal Papers

- Teimouri, R. Amini, S. Ashrafi, H. “An analytical model of burnishing forces using the slab method”, Proc IMechE Part E: J Process Mechanical Engineering, Vol. 0, pp. 1-13, 2018.
- Shaker, S. Khodadad, M. Ashrafi, H. “Analysis of heat conduction in a quadratic functionally graded plane by boundary element method based on the variable transmission approach”, Aerospace Mechanics Journal, Vol. 0, pp. 1-14, 2019.
- Roshdi, S. Mostafavi, A. Razaghi, M. Ashrafi, H. “ Aerodynamic and noise simulation of compressible supersonic gas flow exiting from tube”, Aerospace Knowledge and Technology Journal, Vol. 0, pp. 1-38, 2018.
- Ashrafi, H. Shariyat, M. “A visco-hyperelastic model for brain tissue response analysis under traumatic brain injuries”, Archives of Trauma Research, Vol. 3, pp. 20-27, 2017.
- Shaker, S. Khodadad, M. Ashrafi, H. “Identification of the heat conduction coefficients of a functionally graded material with inverse application of the boundary elements method and using imperialist competitive algorithm”, Modares Mechanical Engineering, Vol. 17, pp. 119-130, 2017.
- Ashrafi, H. Shariyat, M. “A three - dimensional comparative study of isoparametric graded boundary and finite element methods for nonhomogeneous FGM plates with eccentric cutouts”, International Journal of Computational Methods, Vol. 14, pp. 1-28, 2017.

- Emdadi, M. Arani, G.A. Ashrafi, H. "Analysis of viscoelastic functionally graded sandwich plates with CNT reinforced composite facesheets on viscoelastic foundation", *Journal of Solid Mechanics*, Vol. 0, pp. , 2018.
- Keshavarz, R. Bashardoust Tajali, S. Mir, S.M. Ashrafi, H. "Investigation of scapular assistant test results in patients with shoulder impingement syndrome and rotator cuff tear: A clinical pilot study", *Journal of Paramedical Science and Rehabilitation*, Vol. 6, pp. 26-38, 2017.
- Keshavarz, R. Bashardoust Tajali, S. Mir, S.M. Ashrafi, H. "The Role of scapular kinematics in patients with different shoulder musculoskeletal disorders: A systematic review approach", *Journal of Bodywork and Movement Therapies*, Vol. 21, No. 2, pp. 386-400, 2017.
- Lotfi, M. Ashrafi, H. Amini, S. Akhavan Farid, A. Jahanbakhsh M. "Characterization of various coatings on wear suppression in turning of Inconel 625: A three-dimensional numerical simulation", *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, Vol. 231, pp. 734-744, 2017.
- Shariyat, M. Ashrafi H. Bandband, H. "Brain tissue response analysis based on several hyperelastic models, for traumatic brain injury assessment", *Universal Journal of Biomedical Engineering* Vol. 4(2), pp. 11 – 26, 2016.
- Ashrafi, H. Shariyat, M. "A nano-indentation identification technique for viscoelastic constitutive characteristics of periodontal ligaments", *Journal of Biomedical Physics and Engineering*, Vol. 6, No. 2, pp. 109-118, 2016.
- Asemi, K. Ashrafi, H. Shariyat, M. "Three-dimensional stress and free vibration analyses of functionally graded plates with circular holes by the use of the graded finite element method", *Journal of Applied Mechanics and Technical Physics*, Vol. 57, pp. 690-700, 2016.
- Ashrafi, H. Shariyat, M. "A mathematical boundary integral equation for analysis of the heterogeneous media, using the functionally graded elements", *International Journal of Computational Materials Science and Engineering*, Vol. 04, pp. 1-27, 2015.
- Roshdi, S. Mahdiani, R. Razaghi, M. Seifollahi, A. Ashrafi, H. "Numerical analysis of supersonic flow over an APDS projectile", *Fluid Mechanics and Aerodynamics Journal*, Vol. 3, pp. 45-56, 2015.
- Ashrafi, H. Shariyat, M. "A numerical boundary integral equation analysis for standard linear viscoelastic media made of functionally graded materials", *International Journal of Mechanical and Materials Engineering*, Vol. 1, No. 9, pp. 1-7, 2014.
- Keshavarz, R. Shakeri, H. Arab, A.M. Ashrafi, H. "Scapular position and orientation during abduction, flexion and scapular plane elevation phase", *Iranian Rehabilitation Journal*, Vol. 12, pp. 22-30, 2014.
- Ashrafi, H. Shariyat, M. "A numerical Lagrangian approach for analysis of contact viscoelastic problems", *Computational Mathematics and Modeling*, Vol. 25, pp. 416-422, 2014.
- Ashrafi, H. Asemi, K. Shariyat, M. "A three-dimensional boundary element stress and bending analysis of transversely/longitudinally graded plates with circular cutouts under biaxial loading", *European Journal of Mechanics – A/Solids*, Vol. 42, pp. 344-357, 2013.
- Ashrafi, H. Keshmiri, H. Bahadori, M.R. Shariyat, M. "An FEM approach for three – dimensional thermoviscoelastic stress analysis of orthotropic cylinders made of polymers", *Advanced Materials Research*, Vol. 685, pp. 295-299, 2013.
- Ashrafi, H. Bahadori, M.R. Keshmiri, H. Shariyat, M. "Boundary Integral equation analysis of an inhomogeneous medium made of functionally graded materials", *Advanced Materials Research*, Vol. 685, pp. 285-289, 2013.
- Asemi, K. Shariyat, M. Salehi, M. Ashrafi, H. "A full compatible three-dimensional elasticity element for buckling analysis of FGM rectangular plates subjected to various combinations of biaxial normal and shear loads", *Finite Elements in Analysis and Design*, Vol. 74, pp. 9-21, 2013.
- Asemi, K., Ashrafi, H., Salehi, M. Shariyat, M. "Three-dimensional static and dynamic analysis of functionally graded elliptical plates, employing graded finite elements", *Acta Mechanica*, Vol. 224, pp. 1849–1864, 2013.
- Ashrafi, H. Shariyat, M. "A time-domain boundary element method for quasistatic thermoviscoelastic behavior modeling of the functionally graded materials", *International Journal of Mechanics and Materials in Design*, Vol. 9, pp. 295-307, 2013.
- Ashrafi, H. Shariyat, M. Khalili, S.M.R. "A boundary element formulation for the heterogeneous functionally graded viscoelastic structures", *Applied Mathematics and Computation*, Vol. 225, pp. 246-262, 2013.
- Ashrafi, H., Asemi, K., Shariyat, M. Saleh, M. "Two-dimensional modeling of heterogeneous structures using graded finite element and boundary element methods", *Meccanica*, Vol. 48, pp. 663–680, 2013.
- Ashrafi, H., Bahadori, M.R. Shariyat, M. "Modeling of viscoelastic solid polymers using a boundary element formulation with considering a body load", *Advanced Materials Research*, Vol. 463, pp. 499-504, 2012.
- Ashrafi, H. Shariyat, M. "Modeling of Viscoelastic Properties for Polymeric Thin Solid Layers Using a Contact Nanoindentation Approach", *Iranian Journal of Surface Science and Engineering*, Vol. 14, pp. 17-26, 2012.
- Ashrafi, H. Shariyat, M. "Numerical analysis of contact problems with friction on nano-indentation by a modified augmented Lagrangian optimization approach", *Aerospace Mechanics Journal*, Vol. 8, pp. 1-12, 2012.
- Ashrafi, H., Bahadori, M.R. Shariyat, M. "Two-dimensional modeling of functionally graded viscoelastic materials using a boundary element approach", *Advanced Materials Research*, Vol. 464, pp. 570-574, 2012.

- Ashrafi, H., Mahzoon, M. Shariyat, M. "A New Mathematical Modeling of Contact Treatment between an Orthotropic Material and a Rigid Indenter", Iranian Journal of Materials Science and Engineering, Vol. 9, pp. 29-41, 2012.
- Ashrafi, H. Shariyat, M. "A mathematical approach for describing time-dependent Poisson's ratios of periodontal ligaments", Journal of Biomedical Physics and Engineering, Vol. 2, No. 3, pp. 108-115, 2012.
- Ashrafi, H. Farid, M. "A new numerical approach for the contact analysis between a spherical nanoindenter on the surface of viscoelastic half-space", Iranian Journal of Surface Science and Engineering, Vol. 10, pp. 1-10, 2011.
- Ashrafi, H. Farid, M. "A general boundary element formulation for the analysis of viscoelastic problems", IJE Transactions A: Basics, Vol. 23, No. 2, pp. 153-168, 2010.
- Ashrafi, H. Farid, M. "A Computational matrix inversion approach for analysis of contact problems between any rigid nano-indenter and viscoelastic bodies", Aerospace Mechanics Journal, Vol. 5, pp. 33-42, 2010.
- Ashrafi, H. Farid, M. "An augmented Lagrangian finite element approach for the tribological analysis of frictional contact problems in viscoelastic systems", Iranian Journal of Surface Science and Engineering, Vol. 9, pp. 97-108, 2010.
- Ashrafi, H. Farid, M. "A finite element formulation of contact problems for viscoelastic structures based on the generalized Maxwell relaxation model", Aerospace Mechanics Journal, Vol. 5, pp. 11-21, 2009.
- Ashrafi, H. Farid, M. "A mathematical boundary integral equation analysis of standard viscoelastic solid polymers", Computational Mathematics and Modeling, Vol. 20, pp. 397-415, 2009.

✓ Selected Conference Papers

- Shaker, S. Khodadad, M. Ashrafi, H. "Combination of the simple BEM and ICA to detect a cavity inside a FG domain", 26th Annual International Conference of Iranian Society of Mechanical Engineers, 2018.
- Shaker, S. Khodadad, M. Ashrafi, H. "حل معکوس المان مرزی مسئله انتقال حرارت جهت تعیین ضرایب هدایت حرارتی یک صفحه مدرج تابعی", 26th Annual International Conference of Iranian Society of Mechanical Engineers, 2018.
- Shaker, S. Khodadad, M. Ashrafi, H. "استفاده از روش المان مرزی در تحلیل انتقال حرارت در صفحات مدرج تابعی در حالت‌های خاص", 3rd Iranian Conference on Heat and Mass Transfer, 2017.
- Ashrafi, H. Bashari, O. "A finite element approach for modeling of nano-beams incorporated with nonlocal elasticity", In Proceedings of the 5th International Congress on Nanoscience and Nanotechnology, Kharazmi University, (2016).
- Ashrafi, H. Bashari, O. "A nanoindentation identification of time-dependent relaxation and creep moduli for periodontal ligaments", In Proceedings of the 5th International Congress on Nanoscience and Nanotechnology, Kharazmi University, (2016).
- Ashrafi, H. "A boundary element analysis of viscoelastic functionally graded solids", In Proceedings of 24th Annual International Conference on Mechanical Engineering-ISME, Yazd University, (2016).
- Ashrafi, H. "Viscoelastic creep analysis of functionally graded aerospace structures by means of boundary element method", In Proceedings of the 14th International Conference of Iranian Aerospace Society, (2015).
- Ashrafi, H. Bahadori, M.R. Keshmiri, H. Shariyat, M. "Boundary Integral Equation Analysis of an Inhomogeneous Medium Made of Functionally Graded Materials", In Proceedings of the 3rd International Conference on Advanced Materials Research (ICAMR), China, January 7-9, www.scientific.net, (2013).
- Ashrafi, H. Bahadori, M.R. Keshmiri, H. Shariyat, M. "An FEM Approach for Three – Dimensional Thermoviscoelastic Stress Analysis of Orthotropic Cylinders Made of Polymers", In Proceedings of the 3rd International Conference on Advanced Materials Research, China, January 7-9, www.scientific.net, (2013).
- Ashrafi, H. Shariyat, M. "Thermoviscoelastic Analysis of Three-Dimensional Orthotropic Solid Polymers Using a General Finite Element Formulation", In Proceedings of the 21th Annual International Conference on Mechanical Engineering – ISME, K.N. Toosi University of Technology, Tehran, May 7-9, www.isme.ir, (2013).
- Ashrafi, H. Shariyat, M. "A Boundary Element Formulation for Standard Linear Viscoelastic Structures Made of Functionally Graded Materials", In Proceedings of the 21th Annual International Conference on Mechanical Engineering – ISME, K.N. Toosi University of Technology, Tehran, May 7-9, www.isme.ir, (2013).
- Ashrafi, H. Shariyat, M. "Material Nonhomogeneity Modeling of Functionally Graded Viscoelastic Materials Using Boundary and Finite Element Techniques", In Proceedings of the 3rd International Conference on Composites: Characterization, Fabrication & Application, Iran Composite Institute, December 15-18, (2012).
- Ashrafi, H. Bahadori, M.R. Keshmiri, H. "Numerical Analysis of Thermoelastic behavior of Post-Restored Teeth Using a Generalized Approach", In Proceedings of the IEEE 19th Iranian Conference on Biomedical Engineering, Tehran, December 20-21, www.ieeeexplore.ieee.org, (2012).
- Ashrafi, H. Bahadori, M.R. Keshmiri, H. "Numerical Contact Analysis of Periodontal Ligament under Tooth Mobility by Considering Its Viscoelastic Constitutive Behavior", In Proceedings of the IEEE 19th Iranian Conference on Biomedical Engineering, Tehran, December 20-21, www.ieeeexplore.ieee.org, (2012).

- Ashrafi, H., Bahadori, M.R. Shariyat, M. “Two–Dimensional Modeling of Functionally Graded Viscoelastic Materials Using a Boundary Element Approach”, In Proceedings of the 2nd International Conference on Advanced Materials Research (ICAMR), China, January 7–9, www.scientific.net, (2012).
- Ashrafi, H., Bahadori, M.R. Shariyat, M. “Modeling of Viscoelastic Solid Polymers Using a Boundary Element Formulation with Considering a Body Load”, In Proceedings of the 2nd International Conference on Advanced Materials Research (ICAMR), China, January 7–9, www.scientific.net, (2012).
- Ashrafi, H. Shariyat, M. “Effects of Viscoelasticity and Time–Dependent Poisson’s Ratio on Nanoindentation Measurements of Solid Polymers”, In Proceedings of the 10th International Seminar on Polymer Science and Technology – ISPST, Amirkabir University of Technology, Tehran, October 21–25, (2012).
- Bandband, H. Ashrafi, H. Shariyat, M. “Modeling and Analysis of Vibration Response in Human Skull System with Time–Dependent Viscoelastic Nature”, In Proceedings of the IEEE 18th Iranian Conference on Biomedical Engineering, Tarbiat Modares University, Tehran, December 14–16, www.ieeexplore.ieee.org, (2011).
- Ashrafi, H. Shariyat, M. “Identification of Viscoelastic Constitutive Characteristics for Periodontal Ligaments”, In Proceedings of the 1st MEFOMP International Conference of Medical Physics, Shiraz University of Medical Sciences, October 26–28, www.jbpe.org, (2011).
- Ashrafi, H. Shariyat, M. “Thermoelastic Analysis of Post–Restored Teeth Using a Generalized Mathematical Approach”, In Proceedings of the 1st MEFOMP International Conference of Medical Physics, Shiraz University of Medical Sciences, October 26–28, www.jbpe.org, (2011).
- Ashrafi, H. Shariyat, M. “A Nanoindentation Modeling of Viscoelastic Creep and Relaxation Behaviors of Ligaments”, In Proceedings of the 17th IEEE Iranian Conference on Biomedical Engineering, Medical University of Esfahan, November 3–4, www.ieeexplore.ieee.org, (2010).
- Ashrafi, H. Shariyat, M. “A Mathematical Approach for Describing the Time–Dependent Poisson’s Ratio of Viscoelastic Ligaments”, In Proceedings of the 17th IEEE Iranian Conference on Biomedical Engineering, Medical University of Esfahan, November 3–4, www.ieeexplore.ieee.org, (2010).
- Ashrafi, H. Shariyat, M. “A Nanoindentation Modeling Of Time–Dependent Poisson's Ratio for Viscoelastic Solid Polymers”, In Proceedings of the 3rd International Congress on Nanoscience and Nanotechnology – ICNN, Shiraz University, November 9–11, (2010).
- Ashrafi, H. Shariyat, M. “A Viscoelastic Nanoindentation Modeling On Polymeric Solid Films by an Augmented Lagrangian Contact Analysis”, In Proceedings of the 3rd International Congress on Nanoscience and Nanotechnology – ICNN, Shiraz University, November 9–11, (2010).
- Ashrafi, H. Farid, M. “A Meshless Local Boundary Integral Equation Approach Applied to Functionally Graded Viscoelastic Solid Polymers”, In Proceedings of the 18th Annual International Conference on Mechanical Engineering – ISME, Sharif University of Technology, Tehran, May 11–13, (2010).
- Ashrafi, H. “An Augmented Lagrangian Treatment for Viscoelastic Contact Formulation”, In Proceedings of the 2009 Joint ASCE – ASME – SES Conference on Mechanics and Materials, Blacksburg, VA, USA, June 24–27, pp. 122–123, <http://scholardesk.com>, (2009).
- Ashrafi, H. Farid, M. “Measurement of Mechanical Properties of Bones and Teeth Using Nanoindentation”, In Proceedings of the IEEE 16th Iranian Conference on Biomedical Engineering, Tehran University of Medical Sciences, December 30–31, www.ieeexplore.ieee.org, (2009).
- Ashrafi, H. Farid, M. “An Analytical Modeling for Linearly Viscoelastic Functionally Graded Solids by Considering Separable Relaxation Functions in Space and Time”, In Proceedings of the 17th Annual International Conference on Mechanical Engineering – ISME, University of Tehran, May 19–21, www.isme.ir, (2009).
- Ashrafi, H. Kasraei, M. Farid, M. “An Incremental Relaxation Finite Element Approach Adaptive in Space and Time for Generalized Viscoelastic Maxwell Model”, In Proceedings of the 18th Biennial International Conference on Computer Methods in Mechanics, University of Ziolona Gora, Poland, May 18–21, (2009).
- Ashrafi, H. Farid, M. Kasraei, M. “The Viscoelastic Boundary Integral Equation Analysis of Infinite Polymeric Plates Using an Alternative Time Marching Treatment”, In Proceedings of the 18th Biennial International Conference on Computer Methods in Mechanics, University of Ziolona Gora, Poland, May 18–21, (2009).
- Ashrafi, H. Kasraei, M. “Mathematical Modeling of the Time–Dependent Poisson’s Ratio in Linear Viscoelastic Solid Fruits”, In Proceedings of the CIGR Section VI International Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management, Potsdam, Germany, 31 August – 02 September, www.scopus.com, (2009).
- Ashrafi, H. Farid, M. Kasraei, M. “Boundary Element Formulation for General Viscoelastic Solids”, In Proceedings of the 7th Annual International Conference of Iranian Aerospace Society – Aero2008, Sharif University of Technology, Tehran, February 19–21, www.civilica.com, (2008).

- Ashrafi, H. Kasraei, M. Farid, M. “Finite element formulation for viscoelastic contact problems with friction based on the generalized Maxwell model”, In Proceedings of the 16th Annual International Conference on Mechanical Engineering – ISME, Shahid Bahonar University of Kerman, May 13–15, www.isme.ir, (2008).
- Ashrafi, H. Farid, M. Kasraei, M. “Boundary Element Formulation for the Standard Viscoelastic Solids in Time Domain”, In Proceedings of the 16th Annual International Conference on Mechanical Engineering – ISME, Shahid Bahonar University of Kerman, May 13–15, www.isme.ir, (2008).
- Ashrafi, H. Kasraei, M. Farid, M. “Modeling of the Contact Problems of the Human Body/Seat Interface in a Vibration Area”, In Proceedings of the 1st International Conference on Ergonomics, Iranian Society of Ergonomics, Tehran, May 7–8, (2008).
- Ashrafi, H. Farid, M. Kasraei, M. “Identification of Nano–Scale Mechanical Properties of Bio–Tissues by means of a Novel Nanoindentation Technique”, In Proceedings of the 2nd International Congress on Nanoscience and Nanotechnology – ICNN2008, University of Tabriz, October 28–30, (2008).
- Ashrafi, H. Farid, M. Kasraei, M. “Nonlinear Finite Element Modeling of Nanoindentation to Simulate Contact Behavior in Film–Substrate Interface”, In Proceedings of the 2nd International Congress on Nanoscience and Nanotechnology – ICNN2008, University of Tabriz, October 28–30, (2008).