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Education

Degree	Graduated in	Major	University
MSc	2008	Mechanical Engineering	Shiraz University
Ph.D	2014	Mechanical Engineering	K.N. Toosi University of Technology

Workshops

• 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?

Journal Membership

- "Universal Journal of Biomedical Engineering"
- "Journal of Polymer Science and Engineering"
- "International Journal of Mechanical Sciences"
- “Journal of the Mechanical Behavior of Biomedical Materials”
- “Bioinspired, Biomimetic and Nanobiomaterials”
- “Medical & Biological Engineering & Computing”
- "KSCE Journal of Civil Engineering"
- "Journal of Biomedical Physics and Engineering"
- "Journal of Solid Mechanics"
- "Journal of Applied Mechanics" , ...

Membership in Scientific Societies

- Invited Referee for Iran National Science Foundation
- Member of Iranian Research Organization for Science and Technology
- Member of American Society of Mechanical Engineering
- 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

Papers in Conferences

1. H Ashrafi ,A Boundary Element Creep Analysis of Viscoelastic Functionally Graded Solids ,24th Annual International Conference on Mechanical Engineering-ISME2016 ,26 4 2016, یزد.
2. H Ashrafi ,& S Madadi ,VISCOELASTIC CONTACT ANALYSIS OF NANOINDENTATION MODELING ON POLYMERIC SOLID FILMS USING AUGMENTED LAGRANGIAN FINITE ELEMENT FORMULATION ,1st International Conference on Rheology (ICOR) ,Amirkabir University of Technology ,2019/12/17.
3. A. Loghman, H. Ashrafi, S. Saeedi, M. Kholdi،تحلیل ترموالاستیک استوانه جدارضخیم با دوانتهای بسته ساخته شده از مواد مدرج تابعی با روش روش حل عددی مربع سازی دیفرانسیلی (DQM)،۲۵th Annual International Conference of Iranian Society of Mechanical Engineers،Tehran،۲۰۱۷.
4. A. Shaker , M. Khodadad , H. Ashrafi ,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 ,Semnan ,2018/04/24.
5. A. Shaker , M. Khodadad , H. Ashrafi،حل معکوس المان مرزی مسئله انتقال حرارت جهت تعیین ضرایب هدایت حرارتی یک صفحه مدرج تابعی،۲۶th Annual International Conference of Iranian Society of Mechanical Engineers،Semnan،۲۰۱۸/۰۴/۲۴.
6. H Ashrafi،تحلیل برهم‌کنش‌های تماسی در سازه‌های مدرج تابعی ویسکوالاستیک با استفاده از اجزای محدود مدرج،۱۴th International Conference of Iranian Aerospace Society،۳ ۳ ۲۰۱۵،تهران.
7. Keshavarz R, Bashardoust S, Mir SM, Ashrafi H ,The Role of Scapular Kinematics in Patients with Different Shoulder Musculoskeletal Disorders; A Systematic Review Approach ,بیست و چهارمین کنگره سالانه انجمن جراحان ارتوپدی ایران ,تهران, 26 9 2016.
8. A. Shaker , M. Khodadad , H. Ashrafi،استفاده از روش المان مرزی در تحلیل انتقال حرارت در صفحات مدرج تابعی در حالتهای خاص،۳rd Iranian Conference on Heat and Mass Transfer, ICHMT۲۰۱۷،Babol Noshirvani University of Technology،۲۰۱۷/۱۱/۲۲.
9. S Madadi , H Ashrafi , Tabatabaei F،تحلیل دینامیکی نوسانات اندام فوقانی در حین راه رفتن بر سینتیک و

سینماتیک ستون فقرات کمری،۲۰th National Seminar on Specialized Physical Therapy of the Spine،University of Social Welfare and Rehabilitation Sciences،۲۰۱۹.

10. H Ashrafi و S Madadi،۳،ارائه یک مدل تماسی جدید برای فروروی در لایه های ویسکوالاستیک ماکسولیrd Iranian conference on Rheology،Amirkabir University of Technology،July۲۰۱۸.

11. H Ashrafi و S Madadi،۳،وابستگی ضریب پواسون فوم الاستومر ویسکوالاستیک به فرکانسrd Iranian conference on Rheology،Amirkabir University of Technology،July۲۰۱۸.

12. H Ashrafi ,& O Bashari ,A Finite Element Approach for Modeling of Nano-Beams Incorporated with Nonlocal Elasticity ,6th International Conference on Nanoscience and Nanotechnology (ICNN 2016) ,26 10 2016, کرج.

13. H Ashrafi ,& O Bashari ,A Nanoindentation Identification of Time-Dependent Relaxation and Creep Moduli for Periodontal Ligaments ,6th International congress on nanoscience and nanotechnology ,کرج 26 10 2016,.

14. H Ashrafi ,& R Keshavarz ,A 3-D Finite Element Biodynamic Analysis of the Human Lumbar Spine ,1st National Congress on Clinical Movement ,Ahvaz Jondishapur University of Medical Sciences ,2016.

15. H Ashrafi و M Kholdi،۱۶،بررسی رفتار ترمومکانیکی رویه‌های پلیمری حافظه‌دارth National Seminar on Surface Engineering،Tehran،۲۰۱۶.

16. H Ashrafi , A Seifallahi , R. Mahdiani،مدل‌سازی ساختاری و تحلیل رفتار دینامیکی ماده یک ژلاتین باالستیک،۴th International Conference on Iranian Society of Material Engineering & Metallurgy،Tehran،۲۰۱۵.

17. H Ashrafi ,& M Farid ,Nonlinear Finite Element Modeling of Nanoindentation to Simulate Contact Behavior in Film-Substrate Interface ,2nd International Congress on Nanoscience and Nanotechnology ,28 10 2008, تبریز.

18. H Ashrafi و M Shariyat،تحلیل تماس اصطکاکی فروروی یک فرورونده صلب در یک لایه‌ی نازک پلیمری دارای ساختار هدفمند (FGMs)،۱۱th National Seminar on Surface Engineering،Isfahan،۲۰۱۰.

19. Mofidian SMM, Atefi GA, Ashrafi H ,Application of Lattice BOLTZMANN Method to Simulate Blood Flow in Carotid Artery ,1st MEFOMP International Conference of Medical Physics ,Shiraz University of Medical Sciences (SUMS) ,November 2-4, 2011.

20. H Ashrafi ,& M Shariyat ,Thermoviscoelastic Analysis of Three–Dimensional Orthotropic Solid Polymers Using a General Finite Element Formulation ,21st Annual International Conference on Mechanical Engineering (ISME2013) ,KNT University of Technology, Tehran ,2013 5 7.

21. H Ashrafi ,& M Shariyat ,Material Nonhomogeneity Modeling of Functionally Graded Viscoelastic Materials Using Boundary and Finite Element Techniques ,The 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-3) ,Tehran ,2012 12 18.

22. M Shariyat , H Ashrafi , H BandBand ,Modelling Of Energy Absorber on Helmet by Using Polymeric Foams ,10th International Seminar on Polymer Science and Technology ,pp. ISPST10_239 ,Iran Polymer and Petrochemical Institute ,2012.

23. H Ashrafi , H Keshmiri , M.R. Bahadori ,Numerical Analysis of Thermoviscoelastic Behavior of Post-Restored Teeth using a Generalized Approach ,IEEE 19th Iranian conference on Biomedical Engineering ,Amirkabir University of Technology ,2012.

24. Bandband, H; M Shariyat; H Ashrafi ,Reduction of Human Head Injury By Designing an Energy Absorption On Helmet from the Use of Aluminum Honeycomb Panels ,IEEE 19th Iranian conference on Biomedical Engineering ,Amirkabir University of Technology ,2012.

25. H Ashrafi , H Keshmiri , M.R. Bahadori ,Numerical Contact Analysis of Periodontal Ligament under Tooth Mobility by Considering Its Viscoelastic Constitutive Behavior ,IEEE 19th Iranian conference on Biomedical Engineering ,pp. ICBME19_077 ,Amirkabir University of Technology ,2012.

26. M. Shariyat ; H. BandBand ; H. Ashrafi ,Modeling and Analysis of Vibration Response in Human Skull System with Time–Dependent Viscoelastic Nature ,IEEE 18th Iranian Conference on Biomedical Engineering ,14 12 2011, تهران.

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28. Haghighatpour M, Mahdipour A, Vahedi KH, Ashrafi H ,Numerical Simulation of Penetration of Rib Cortical Bone Struck By Projectiles with Different Nose Shapes ,1st MEFOMP International Conference of Medical Physics ,pp. 83 ,Shiraz University of Medical Sciences ,2011.
29. H Ashrafi , M Shariyat , SMM Mofidian ,Thermoelastic Analysis of Post–Restored Teeth Using a Generalized Mathematical Approach ,1st MEFOMP International Conference of Medical Physics ,pp. 43 ,Shiraz University of Medical Sciences ,2011.
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32. H Ashrafi ,& M Shariyat ,A Nanoindentation Modeling of Viscoelastic Creep and Relaxation Behaviors of Ligaments, mechanical characteristics of biological tissues ,IEEE 17th Iranian Conference on Biomedical Engineering ,3 11 2010, اصفهان.
33. H Ashrafi ,& M Farid ,A Meshless Local Boundary Integral Equation Approach Applied to Functionally Graded Viscoelastic Solid Polymers ,18th Annual International Conference on Mechanical Engineering ,pp. ISME18_574 ,Sharif University of Technology, Tehran ,2010.
34. H Ashrafi ,& M Farid ,An Analytical Modeling for Linearly Viscoelastic Functionally Graded Solids by Considering Separable Relaxation Functions in Space and Time ,17th Annual International Conference on Mechanical Engineering ,The Iranian Society of Mechanical Engineers (ISME) ,2009 5 19.
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37. H Ashrafi ,& M Farid ,The Viscoelastic Boundary Integral Equation Analysis of Infinite Polymeric Plates Using an Alternative Time Marching Treatment ,18th Biennial International Conference on Computer Methods in Mechanics ,University of Ziolona Gora, Poland ,2009.
38. H Ashrafi ,& M Farid ,A Finite Element Formulation for Thermoviscoelastic Analysis of Polymeric Thin Solid Films ,10th Iranian Seminar on Heat treatment and Surface Engineering ,pp. ISSE10_064 ,Iranian Society of Surface Science & Technology ,2009.
39. H Ashrafi ,& M Farid ,Boundary Element Formulation for General Viscoelastic Solids ,7th Annual International Conference of Iranian Aerospace Society – Aero2008 ,Sharif University of Technology ,2008 2 19.
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1. M Safari, M Mohammadimehr, H Ashrafi,Free vibration of electro-magneto-thermo sandwich Timoshenko beam made of porous core and GPLRC,Advances in Nano research,2021.
2. M Kholdi, A Loghman, HAshrafi, M Arefi,Analysis of thick-walled spherical shells subjected to external pressure: Elastoplastic and residual stress analysis,P I MECH ENG L-J MAT,Vol. 234,pp. 186-197,2020.
3. M Lotfi, H Ashrafi, S Amini,Characterization of various coatings on wear suppression in turning of Inconel 625: A three-dimensional numerical simulation,P I MECH ENG J-J ENG,Vol. 231,pp. 734-744,2017.
4. N Yazdani, H Ashrafi, M □zcan, N Nekoueimehr, M Kholdi, A Farzad,Mechanical and Thermal Stress Analysis of Cervical Resin Composite Restorations Containing Different Ratios of Zinc Oxide

Nanoparticles: A 3D Finite Element Study,Materials,2022.
5. R Teimouri, S Amini, H Ashrafi,An analytical model of burnishing forces using slab method,P I MECH ENG E-J PRO,Vol. 233,pp. 630-642,2019.
6. Ashrafi, H. Shariyat, M,A Visco-Hyperelastic Model for Prediction of The Brain Tissue Response and The Traumatic Brain Injuries,Archives of Trauma Research,Vol. 6,pp. 41-48,2017.
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8. .Shariyat, M. Ashrafi H,A Three-Dimensional Comparative Study of the 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.
9. M Kholdi, A Loghman, H Ashrafi, M Arefi,Analysis of Thick-Walled Spherical Shells Subjected to Various Temperature Gradients: Thermo-Elasto-Plastic and Residual Stress Studies,International Journal of Applied Mechanics,2021.
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11. .Teimouri, R. Ashrafi, H,Optimization of hydroforming process for deep drawing of AA7075 using finite element simulation and response surface methodology,T INDIAN I METALS,Vol. 70,pp. 2265–2275,2017.
12. Ashrafi, H. Shariyat, M. Asemi, K.,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.
13. Ashrafi, H. Shariyat, M. Asemi, K.,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.
14. S Saeedi, M Kholdi, A Loghman, H Ashrafi, M Arefi,Thermo-elasto-plastic analysis of thick-walled cylinder made of functionally graded materials using successive approximation method,International Journal of Pressure Vessels and Piping,2021.
15. H. Ashrfi, M. Shariyat, S.M.R. Khalili,A Boundary Element Formulation for the Heterogeneous Functionally Graded Viscoelastic Structures,Applied Mathematics and Computation,Vol. 225,pp. 246-262,2013.
16. A Shaker, M. Khodadad, H Ashrafi,Analysis of Heat Conduction in a Quadratic Functionally Graded Plane by Boundary Element Method Based on the Variable Transmission Approach,Journal of Aerospace Mechanics,Vol. 15,pp. 77-89,2020.
17. M Lotfi, S Amini, H Ashrafi,Theoretical and numerical modeling of tool–chip friction in ultrasonic-assisted turning,P I MECH ENG E-J PRO,Vol. 233,pp. 824-838,2019.
18. K. Asemi, H. Ashrafi, M. Shariyat,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.
19. .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،۱۰ ۱۳۰،۲۰۱۷-۱۱۹ مجلد ۱۷،شماره صفحات ۰۱.
20. R Keshavarz; H Shakeri; A.M Arab; H Ashrafi,Scapular Position and Orientation during Abduction, Flexion and Scapular Plane elevation Phase,Iranian Rehabilitation Journal,Vol. 12,pp. 22-30,2014.
21. H. Ashrafi , M. Mahzoon , M. Shariyat,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.
22. H. Ashrafi, K. Asemi, M. Shariyat, M. Salehi,Three-dimensional static and dynamic analysis of functionally graded elliptical plates, employing graded finite elements,Acta Mechanica,Vol. 224,pp.

1849–1864,2013.
23. A Ghorbanpour Arani, M Emdadi, H Ashrafi, M Mohammadimehr,Analysis of viscoelastic functionally graded sandwich plates with CNT reinforced composite facesheets on viscoelastic foundation,Journal of Solid Mechanics,Vol. 11,pp. 690-706,2019.
24. H. Ashrafi M. Farid,A Mathematical Boundary Integral Equation Analysis of Standard Viscoelastic Solid Polymers,Computational Mathematics and Modeling,Vol. 20,pp. 397-415,2009.
25. 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،مجلد ۸،شماره ۲۶،۲۰۱۲-۱۷ صفحات.
26. .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,pp. 11 – 26,2016.
27. H. Ashrafi, M. Shariyat,A Mathematical Approach for Describing Time-Dependent Poisson's Ratios of Periodontal Ligaments,Journal of Biomedical Physics and Engineering,Vol. 2,2012.
28. محمد صفری،مهدی محمدی مهر،حسین اشرفی,Forced vibration of a sandwich Timoshenko beam made of GPLRC and porous core,Structural Engineering and Mechanics,2023 09 30,SCOPUS ,JCR.
29. لقمان , اشرفی , زمانی نیا , خلدی،تحلیل و مقایسه تسلیم و توزیع تنش درسازه های استوانه ای جدارضخیم تحت فشار داخل و خارج با در نظر گرفتن تاثیر ضخامت،Journal of Science and Engineering Elites،۲۰۱۷.
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33. S. Saeedi, M. Kholdi, A. Loghman, H. Ashrafi & M. Arefi,Axisymmetric thermoelastic analysis of long cylinder made of FGM reinforced by aluminum and silicone carbide using DQM,Archives of Civil and Mechanical Engineering,2022.
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35. H. Ashrafi, M. Shriyat,A visco-hyperelastic model for brain tissue response analysis under traumatic brain injuries,Archives of Trauma Research,2017.
36. H. Ashrafi, M. Shriyat,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,2017.
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38. K. Asemi, M. Shariyat, M. Salehi, H. Ashrafi,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.
39. H. Ashrafi, H. Keshmiri, M.R. Bahadori, M. Shariyat,An FEM Approach for Three-Dimensional Thermoviscoelastic Stress Analysis of Orthotropic Cylinders Made of Polymers,Advanced Materials Research,Vol. 685,pp. 295-299,2013.
40. H. Ashrafi, M.R. Bahadori, H. Keshmiri, M. Shariyat,Boundary Integral Equation Analysis of an Inhomogeneous Medium Made of Functionally Graded Materials,Advanced Materials Research,Vol. 685,pp. 285-289,2013.
41. H. Ashrafi, K. Asemi, M. Shariyat, M. Salehi,Two-dimensional modeling of heterogeneous structures

using graded finite element and boundary element methods,MECCANICA,Vol. 48,pp. 663–680,2013.
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