



**Professor Hadi Babaei**

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### **Selected Publications:**

H. Babaei, Yaser Kiani and M.R. Eslami, "Application of two-steps perturbation technique to geometrically nonlinear analysis of long FGM cylindrical panels on elastic foundation under thermal load", *Journal of Thermal Stresses*, Vol. 41, pp 1-19, 8 February 2018

H. Babaei, Yaser Kiani and M.R. Eslami, "Geometrically nonlinear analysis of shear deformable FGM shallow pinned arches on nonlinear elastic foundation under mechanical and thermal loads", *Acta Mechanica*, Vol. 229, 24 April 2018

H. Babaei, Yaser Kiani and M.R. Eslami, "Thermomechanical nonlinear in-plane analysis of fix-ended FGM shallow arches on nonlinear elastic foundation using two-step perturbation technique", *International Journal of Mechanics and Materials in Design*, Vol. ?, 10 October 2018

H. Babaei, Yaser Kiani and M.R. Eslami, "Thermally induced large deflection analysis of shear deformable FGM shallow curved tubes using perturbation method", *ZAMM – Journal of Applied Mathematics and Mechanics*, Vol. 99, 22 October 2018

H. Babaei, Yaser Kiani and M.R. Eslami, "Geometrically nonlinear analysis of functionally graded shallow curved tubes in thermal environment", *Thin-Walled Structures*, Vol. 132, pp 48-57, 1 November 2018

Hadi Babaei, Yaser Kiani and M. Eslami, "Thermal buckling and post-buckling analysis of geometrically imperfect clamped tubes on nonlinear elastic foundation", *Applied Mathematical Modelling*, Vol. 71, 1 February 2019

Hadi Babaei and M. Reza Eslami, "Nonlinear snap-through instability of FGM shallow micro-arches with integrated surface piezoelectric layers based on modified couple stress theory", *International Journal of Structural Stability and Dynamics*, Vol. ?, 24 April 2019

Morteza Rajabpour, H. Babaei and M.R. Eslami, "Numerical investigation of effect of preheating on thermal stresses of submerged arc welding pipes with FEM", 27th Annual International Conference on Mechanical Engineering, ISME 2019 and 7th Conference on Thermal Power Plants, April 30-May 2, Tarbiat Modares University, 2019

Hadi Babaei, Yaser Kiani and M. Reza, "Large amplitude free vibrations of long FGM cylindrical panels on nonlinear elastic foundation based on physical neutral surface", *Composite Structures*, Vol. 220, pp 888-898, 15 July 2019

Hadi Babaei, M. Reza Eslami, "Thermally induced large deflection of FGM shallow micro-arches with integrated surface piezoelectric layers based on modified couple stress theory", *Acta Mechanica*, Vol. 230, No. 7, pp 2363-2384, July 2019

Hadi Babaei and M. Reza Eslami, "Nonlinear Snap-Through Instability of FGM Shallow Micro-Arches with Integrated Surface Piezoelectric Layers Based on Modified Couple Stress Theory", *International Journal of Structural Stability and Dynamics*, Vol. 19, No. 8, 1950088, August 2019

Hadi Babaei, Yaser Kiani and M. Reza Eslami, "Buckling and Post-Buckling Analysis of Geometrically Imperfect FGM Pin-Ended Tubes Surrounded by Nonlinear Elastic Medium Under Compressive and Thermal Loads", *International Journal of Structural Stability and Dynamics*, Vol. 19, No. 8, 1950089, August 2019

Hadi Babaei, Yaser Kiani and M. Reza Eslami, "Large amplitude free vibration analysis of shear deformable FGM shallow arches on nonlinear elastic foundation", *Article 106237, Thin-Walled Structures*, Vol. 144, 106237, November 2019

Hadi Babaei, M. R. Eslami and A. R. Khorshidvand, "Thermal buckling and postbuckling responses of geometrically imperfect FG porous beams based on physical neutral plane", *Journal of Thermal Stresses*, Vol. 43, No. 1, pp 109-131, 2020

Hadi Babaei, Yaser Kiani and Mohammad Eslami, "Limit load analysis and imperfection sensitivity of heated or compressed beams on nonlinear softening elastic foundation", *Mechanics Based Design of Structures and Machines*, Vol. ?, pp 1-24, 24 January 2020