

محمد فرجی اسکویی

عضو هیات علمی دانشگاه گرمسار

تلفن محل کار: ۰۲۳-۳۱۹۳۰۳۸۷

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سوابق تحصیلی :

- دکتری مهندسی مکانیک جامدات - دانشگاه گیلان
عنوان رساله: "توسعه مدل هایپیرالاستیک و الاستوپلاستیک مایکرومورفیک برای تحلیل تغییرشکل های بزرگ پوسته ها"
- کارشناسی ارشد مهندسی مکانیک - طراحی کاربردی - دانشگاه گیلان
عنوان پایان نامه: "تحلیل ارتعاشات غیرخطی سیستم های مکانیکی با مرتبه کسری"
- کارشناسی مهندسی مکانیک - طراحی جامدات - دانشگاه صنعتی ارومیه
عنوان پروژه: "طراحی میکروسوئیچ تحت بارگذاری های دینامیکی و شوک مکانیکی"

علاقه مندی های تحقیقاتی و مطالعاتی :

- روش های عددی در مهندسی مکانیک
 - تحلیل تغییرشکل های بزرگ الاستیک و پلاستیک سازه ها (تیر، ورق و پوسته)
 - نانو و میکرو مکانیک
 - ارتعاشات و دینامیک روتور
 - ریاضیات کسری
 - بایومکانیک
 - توربین گاز، بخار، کمپرسور، گیربکس و ...
 - پایش وضعیت ارتعاشی و عیب یابی
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افتخارات :

- پژوهشگر برتر استان گیلان در بخش دانشجویی: ۱۳۹۹
- برنده جایزه شهید صیاد شیرازی بنیاد ملی نخبگان: ۱۳۹۹

آشنایی با نرم افزارها :

- NX ,Abaqus ,Ansys ,DyRoBeS ,Maple ,Matlab

لیست مقالات:

1. R Ansari, MZ Ershadi, A Mirsabetnazar, **M. Faraji Oskouie**, “Nonlinear large amplitude vibrations of annular sector functionally graded porous composite plates under instantaneous hygro-thermal shock” (*Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2024).
 2. R Ansari, MZ Ershadi, HA Laskoukalayeh, **M. Faraji Oskouie**, H Rouhi, “Hygrothermally-Induced Vibration Analysis of Porous FGM Rectangular Mindlin Plates Resting on Elastic Foundation” (*International Journal of Structural Stability and Dynamics*, 2024).
 3. M. Zargar Ershadi, **M. Faraji Oskouie**, R. Ansari, “Nonlinear vibration analysis of functionally graded porous circular plates under hygro-thermal loading” (*Mechanics Based Design of Structures and Machines*, 2024).
 4. R Ansari, M Zargar Ershadi, **M Faraji Oskouie**, H Rouhi, “A VDQ approach to nonlinear vibration analysis of functionally graded porous circular plates resting on elastic foundation under hygrothermal shock” (*Acta Mechanica*, 2023).
 5. **M Faraji Oskouie**, M Zargar, R Ansari, “Dynamic snap-through instability of hygro-thermally excited functionally graded porous arches” (*International Journal of Structural Stability and Dynamics*, 2023).
 6. S Nesarhosseini, R Ansari, **M. Faraji Oskouie**, H Rouhi, “Thermally induced vibration analysis of Timoshenko beams based on the micropolar thermoelasticity” (*Acta Mechanica*, 2023).
 7. **M. Faraji Oskouie**, R Ansari, H Rouhi, “Free vibrations of Timoshenko nanoscale beams based on a hybrid integral strain-and stress-driven nonlocal model” (*The Journal of Strain Analysis for Engineering Design*, 2023).
 8. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, “Bending analysis of nanobeams based on the integral form of nonlocal elasticity using the numerical Rayleigh-Ritz technique” (*The Journal of Strain Analysis for Engineering Design*, 2023).
 9. **M. Faraji Oskouie**, R. Ansari, M. Darvizeh, “On finite deformation of hyperelastic shell-type structures: Cartesian formulation-based VDQ approach” (*Thin-Walled Structures*, 2022).
 10. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, “Thermally nonlinear generalized coupled thermo-viscoelasticity of disks: a numerical variational approach” (*Waves in Random and Complex Media*, 2022).
 11. M Faraji-Oskouie, R Ansari, M Darvizeh, “A variational differential quadrature solution to finite deformation problems of hyperelastic shell-type structures: a two-point formulation in Cartesian coordinates” (*Applied Mathematics and Mechanics*, 2022).
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12. R. Ansari, S. Nesarhosseini, **M. Faraji Oskouie**, H. Rouhi, "Dynamic response of rapidly heated rectangular plates made of porous functionally graded material" (*International Journal of Structural Stability and Dynamics*, 2022).
 13. R. Ansari, **M. Faraji Oskouie**, S. Nesarhosseini, H. Rouhi, "Nonlinear thermally induced vibration analysis of porous FGM timoshenko beams embedded in an elastic medium" (*Transport in Porous Media*, 2022).
 14. R. Ansari, **M. Faraji Oskouie**, M. Zargar, "Hygrothermally induced vibration analysis of bidirectional functionally graded porous beams" (*Transport in Porous Media*, 2022).
 15. R. Ansari, **M. Faraji Oskouie**, S. Nesarhosseini, H. Rouhi, "Vibrations of piezoelectric nanobeams considering flexoelectricity influence: A numerical approach based on strain-driven nonlocal differential/integral models" (*BSME*, 2022).
 16. R. Ansari, S. Nesarhosseini, **M. Faraji Oskouie**, H. Rouhi, "Size-dependent buckling analysis of piezoelectric nanobeams resting on elastic foundation considering flexoelectricity effect using the stress-driven nonlocal model" (*The European Physical Journal Plus*, 2021).
 17. R. Ansari, R. Hassani, **M. Faraji Oskouie**, H. Rouhi, "Large deformation analysis in the context of 3D compressible nonlinear elasticity using the VDQ method" (*Engineering with Computers*, 2021).
 18. **M. Faraji Oskouie**, H. Rouhi, "Hybrid strain-and stress-driven integral non-local model" (*The European Physical Journal Plus*, 2021).
 19. R. Ansari, **M. Faraji Oskouie**, S. Nesarhosseini, H. Rouhi, "Flexoelectricity effect on the size-dependent bending of piezoelectric nanobeams resting on elastic foundation" (*Applied Physics A*, 2021).
 20. M. Kohansal-Vajargah, R. Ansari, **M. Faraji-Oskouie**, M. Bazdid-Vahdati, "Vibration analysis of two-dimensional structures using micropolar elements" (*Applied Mathematics and Mechanics*, 2021).
 21. **M. Faraji Oskouie**, R. Ansari, "Vibration analysis of fractional viscoelastic CNTs conveying fluid resting on fractional viscoelastic foundation considering nonlocal effects" (*Computational Sciences and Engineering*, 2021).
 22. R. Ansari, **M. Faraji Oskouie**, M. Roghani, H. Rouhi, "Nonlinear analysis of laminated FG-GPLRC beams resting on an elastic foundation based on the two-phase stress-driven nonlocal model" (*Acta Mechanica*, 2021).
 23. A. Norouzzadeh, **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Isogeometric Analysis of Vibrations of Nanoscopic Beams on the Basis of Integral/Differential Nonlocal–Micropolar Models" (*Acta Mechanica Sinica*, 2021).
 24. R. Ansari, **M. Faraji Oskouie**, H. Rouhi, "Bending analysis of nanoscopic beams based upon the strain-driven and stress-driven integral nonlocal - strain gradient theories" (*BMSE*, 2021).
 25. R. Ansari, R. Hassani, **M. Faraji Oskouie**, H. Rouhi, "Nonlinear bending analysis of hyperelastic Mindlin plates: a numerical approach" (*Acta Mechanica*, 2021).
 26. **M. Faraji Oskouie**, M. K. Hassanzadeh-Aghdam, R. Ansari, "A new numerical approach for low velocity impact response of multiscale-reinforced nanocomposite plates" (*Engineering with computers*, 2021).
 27. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Studying nonlinear thermomechanical wave propagation in a viscoelastic layer based upon the Lord-Shulman theory" (*Mechanics of Advanced Materials and Structures*, 2020).
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28. **M Faraji Oskouie**, R Ansari, H Rouhi, "Investigating vibrations of viscoelastic fluid-conveying carbon nanotubes resting on viscoelastic foundation using a nonlocal fractional Timoshenko beam model" (*Proceedings of the Institution of Mechanical Engineers, Part N*, 2020).
 29. **M. Faraji Oskouie**, R Ansari, H Rouhi, "Nonlinear bending and postbuckling analysis of FG nanoscale beams using the twophase fractional nonlocal continuum mechanics" (*The European Physical Journal Plus*, 2019).
 30. A Norouzzadeh, **M. Faraji Oskouie**, R Ansari, H Rouhi, "Integral and differential nonlocal micromorphic theory" (*Engineering Computations*, 2019).
 31. **M Faraji-Oskouie**, A. Norouzzadeh, R Ansari, H Rouhi, "Bending of small-scale Timoshenko beams based on the integral/differential nonlocal micropolar elasticity theory: a finite element approach" (*Applied Mathematics and Mechanics*, 2019).
 32. **M. Faraji Oskouie**, M. Bazdid-Vahdati, R Ansari, H Rouhi, "Finite element modeling of micromorphic continua in the context of three-dimensional elasticity" (*Continuum Mechanics and Thermodynamics*, 2019).
 33. M Bazdid-Vahdati, **M Faraji Oskouie**, R Ansari, H Rouhi, "Finite element analysis of micromorphic and micropolar continua based on twodimensional elasticity" (*Mathematics and Mechanics of Solids*, 2018).
 34. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "A numerical study on the buckling and vibration of nanobeams based on the strain and stress-driven nonlocal integral models" (*International Journal of Computational Materials Science and Engineering*, 2018).
 35. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Stress-driven nonlocal and strain gradient formulations of Timoshenko nanobeams" (*The European Physical Journal Plus*, 2018).
 36. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Vibration analysis of FG nanobeams on the basis of fractional nonlocal model: a variational approach" (*Microsystem Technologies*, 2018).
 37. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Bending of Euler-Bernoulli nanobeams based on the strain- and stress-driven nonlocal integral models: a numerical approach" (*Acta Mechanica Sinica*, 2017).
 38. **M. Faraji Oskouie**, R. Ansari, H. Rouhi, "Bending analysis of functionally graded nanobeams based on the fractional nonlocal continuum theory by the variational Legendre spectral collocation method" (*Meccanica*, 2017).
 39. R. Ansari, **M. Faraji Oskouie**, H. Rouhi, "Studying linear and nonlinear vibrations of fractional viscoelastic Timoshenko micro-/nano-beams using the strain gradient theory" (*Nonlinear Dynamics* 2017).
 40. **M. Faraji Oskouie**, R. Ansari, "Linear and nonlinear vibrations of fractional viscoelastic Timoshenko nanobeams considering surface energy effects" (*Applied Mathematical Modelling*, 2017).
 41. **M. Faraji Oskouie**, R. Ansari, F. Sadeghi, "Nonlinear vibration analysis of fractional viscoelastic Euler-Bernoulli nanobeams based on the surface stress theory" (*Acta Mechanica Solida Sinica*, 2017).
 42. R. Ansari, **M. Faraji Oskouie**, R. Gholami, F. Sadeghi, "Thermo-electro-mechanical vibration of postbuckled piezoelectric Timoshenko nanobeams based on the nonlocal elasticity theory" (*Composites Part B: Engineering* 2016). (مقاله برگزیده ستاد نانو کشور)
 43. R. Ansari, **M. Faraji Oskouie**, R. Gholami, "Size-dependent geometrically nonlinear free vibration analysis of fractional viscoelastic nanobeams based on the nonlocal elasticity theory" (*Physica E: Low-dimensional Systems and Nanostructures* 2016). (*Hot paper: October to December 2015*)
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44. R. Ansari, **M. Faraji Oskouie**, F. Sadeghi, M. Bazdid-Vahdati, “Free vibration of fractional viscoelastic Timoshenko nanobeams using the nonlocal elasticity theory” (***Physica E: Low-dimensional Systems and Nanostructures** 2015*).
 45. **M. Faraji Oskouie**, M. Bazdid-Vahdati, R. Gholami, R. Ansari, “Size-Dependent Free Vibration of Thermally Postbuckled Piezoelectric Timoshenko Nanobeams Subject to Thermoelectric Loading Based on the Nonlocal Elasticity Theory” (***Journal of Mechatronics** 2016*).
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