# Ahmadreza Ghasemi

Professor

College: Faculty of Mechanical Engineering

Department: Mechanical Engineering - Solid Design

## Education

| Degree | Graduated in | Major | University |
|---|---|---|---|
| BSc | 2000 | Mechanical Engineering | Shahid Chamran University of Ahvaz |
| MSc | 2002 | Mechanical Engineering | Iran University of Science and Technology |
| Ph.D | 2007 | Mechanical Engineering | Iran University of Science and Technology |

## Employment Information

| Faculty/Department | Position/Rank | Employment Type | Cooperation Type | Grade |
|---|---|---|---|---|
| University of Kashan | Associate Professor | Certain | Full Time | |

## Papers in Conferences

1. مهدی سعیدی اصفهانی,احمدرضا قاسمی,محمد حیدری رارانی،مطالعه اثرات پارامترهای ناحیه‌ی چسبناک بر رفتار رشد تورق در چندلایه‌های کامپوزیتی،بیست و هشتمین همایش سالانه بین‌المللی مهندسی مکانیک ایران،۱ - تهران،۲۰۲۰ ۰۵ ۲۷ .
2. احمدرضا قاسمی,سیده سارا امیراحمدی,بهزاد اصغری،اثرات استفاده از ماتریس تنظیم تیخانوف در محاسبه تنش‌های پسماند در روش سوراخکاری مرکزی،بیست و ششمین همایش سالانه بین المللی مهندسی مکانیک،۱ - سمنان،۲۰۱۸ ۰۴ ۲۴ .
3. تقویت شده T][احمدرضا قاسمی,مهدی محمدی فشارکی،مطالعه و کاهش انحناء در کامپوزیت¬های لایه¬ای [۰۲/۹۰۲ با نانولوله¬های کربنی،اولین کنفرانس بین المللی فنآوریهای نوین در علوم،۱ - آمل،۲۰۱۷ ۰۹ ۰۷ .
4. احمدرضا قاسمی,مجتبی خلیلی,اکبر طهمورثی،مطالعه اثرات تمرکز تنش ابعاد هندسی سوراخ، چیدمان و جنس بر روی چند لایه های کامپوزیتی با هندسه حلقوی،۲۵ امین کنفرانس سالانه بین المللی مهندسی مکانیک ایران،۱ - تهران،۲۰۱۷ ۰۵ ۰۲ .
5. احمدرضا قاسمی,اکبر طهمورثی,مجتبی خلیلی،مطالعه تحلیلی و تجربی اثرات چیدمان، ابعاد هندسی سوراخ و جنس بر روی ضریب تمرکز تنش چند لایه های کامپوزیتی،۲۵ امین کنفرانس سالانه بین المللی مهندسی مکانیک ایران،۱ - تهران،۲۰۱۷ ۰۵ ۰۲ .
6. احمدرضا قاسمی,مجتبی قاسمی،تحلیل تنش‌های بین‌لایه‌ای در تیرهای کامپوزیتی گیردار- آزاد بر روی بستر الاستیک،شانزدهمین کنفرانس بین المللی انجمن هوافضای ایران،۱ - تهران،۲۰۱۷ ۰۲ ۲۱ .

7. به روش تیوری مرتبه (FML) علیرضا شالچی,احمدرضا قاسمی،تحلیل ارتعاشات آزاد صفحات هیبریدی فلز کامپوزیت اول برشی اصلاح شده و مقایسه آن با تیوری کلاسیک لایه ای،چهارمین کنفرانس ملی و دومین کنفرانس بین المللی پژوهش هایی کاربردی در مهندسی برق، مکانیک و مکاترونیک،۱ - تهران،۲۰۱۷ ۰۲ ۱۷ .
8. احمدرضا قاسمی,بهنام عامری،استفاده از نانوکامپوزیت ها در کنترل خوردگی فلزات،چهارمین کنفرانس تخصصی فناوری نانو در صنعت برق و انرژی،۱ - تهران،۲۰۱۶ ۰۸ ۲۳ .
9. احمدرضا قاسمی,محمد محمدی فشارکی،مطالعه تنشهای پسماند الیاف کربنی تقویت شده به روش الکتروفورز در یزد،۲۰۱۶ - ۱،ISME۲۰۱۶،کامپوزیتهای پایه پلیمری،بیست و چهارمین همایش سالانه بین¬المللی مهندسی مکانیک ایران ۰۴ ۲۶ .
10. احمدرضا قاسمی,کمیل حسین پور،توزیع کرنش خزشی بلندمدت در جداره استوانه کامپوزیتی چندلایه با الیاف تک جهته،بیست و چهارمین همایش سالانه بین¬المللی مهندسی مکانیک ایران،۱ - یزد،۲۰۱۶ ۰۴ ۲۶ .
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12. Abolfazl Vaheb, ,Parametric Analysis of Composite Wind Turbine Blades: An Aerodynamic Perspective ,27 05 2020, تهران ,1 - بیست و هشتمین همایش سالانه بین‌المللی مهندسی مکانیک ایران .
13. صهبا روح اللهی, ,A computational method to assess the impact of stacking sequence on the cured shape of laminated hybrid polymeric structures ,بیست و هشتمین همایش سالانه بین‌المللی مهندسی مکانیک ایران ,1 - تهران ,27 05 2020 .
14. mohammad meskini ,Vibration studies of rotating functionally graded circular cylindrical shells based on Love’s shell theory ,The 27th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2019 ,1 - 30 04 2019, تهران .
15. seyedeh Sara Amirahmadi,masoud mohammadi ,Study on Simultaneous Effects of MWCNTs and Cooling Conditions on the Thermal Residual Stresses of Composite Pipes ,The 27th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2019 ,1 - 30 04 2019, تهران .
16. احمدرضا قاسمی,مهدی سلیمانی نجف ابادی ,Buckling Analysis of Fiber Metal Laminated Circular Cylindrical Shells Reinforced by CNTs ,The 27th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2019 ,1 - 30 04 2019, تهران .
17. احمدرضا قاسمی,بهزاد اصغری,علی طباطبائیان ,Investigation of the effects of cooling temperature on the residual stresses of CFRP composite cylinders ,The 6th International Conference on Composites: Characterization, Fabrication and Application (CCFA-6) ,1 - 11 12 2018, تهران .
18. احمدرضا قاسمی,علی طباطبائیان,مهدی مرادی ,The role of thermal fatigue and open hole on the tensile performance of polymeric composites ,The 6th International Conference on Composites: Characterization, Fabrication and Application (CCFA-6) ,1 - 11 12 2018, تهران .
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20. احمدرضا قاسمی,کمیل حسین پور ,Influence of Magnetic Field in Creep Behavior of Three-phase Composite Cylinder ,The 26th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2018 ,1 - 24 04 2018, سمنان .
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22. احمدرضا قاسمی,محمدهادی حاج محمد,احسان غفاری جونقانی ,Buckling Optimization of Grid Stiffened Composite Shell under External Hydrostatic Pressure ,International Conference on Experimental Solid Mechanics (X-Mech 2016) ,1 - 16 02 2016, تهران .
23. Ahmad Reza Ghasemi ,& Ali Tabatabaeian ,Curvature changes and weight loss of GFRP composites under thermal fatigue ,The 6th International Conference on Composites: Characterization, Fabrication and Application (CCFA-6) ,2018.
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2. Masood Mohandes, Ahmad Reza Ghasemi,A new approach to reinforce the fiber of nanocomposite reinforced by CNTs to analyze free vibration of hybrid laminated cylindrical shell using beam modal function method,European Journal of Mechanics-A/Solids,No. 73,pp. 224-234,2019.
3. AR Ghasemi, A Tabatabaeian, M Moradi,Residual stress and failure analyses of polymer matrix composites considering thermal cycling and temperature effects based on classical laminate plate theory,Journal of Composite Materials,2018,ISI.
4. Ahmad Reza Ghasemi, Mohammad Mohammadi Fesharaki,Effect of carbon nanotube on cured shape of cross-ply polymer matrix nanocomposite laminates: analytical and experimental study,Iranian Polymer Journal,Vol. 27,No. 12,pp. 965-977,2018.
5. Ahmad Reza Ghasemi, Komeil Hosseinpour,Creep strain and stress analysis in laminated composite pressure vessels,Mechanics of Advanced Composite Structures,Vol. 5,No. 2,pp. 141-147,2018.
6. Nayyereh Shabani, Masood Hamadanian, Ahmad Reza Ghasemi, Marzieh Sarafrazi,Physicochemical and Mechanical Properties of Epoxy/Polyurethane/Nickel Manganite Nanocomposite: A Response Surface Methodology/Central Composite Designs Study,Journal of Inorganic and Organometallic Polymers and Materials,Vol. 28,No. 6,pp. 2689-2700,2018.
7. AR Ghasemi, M Moradi,Failure analysis of the Nol-ring polymer matrix composites under thermal cycling.,Polymer Composites,Vol. 39,No. 9,pp. 3140-3146,2018.
8. Ghasemi, A. R. , Hamadanian, M. , Sarafrazi, M. , Najafidoust, A,Molecular dynamics simulation and thermo-mechanical characterization for optimization of three-phase epoxy/TiO2/SiO2 nano-composites,Polymer Testing,2021.
9. Ahmad Reza Ghasemi, Komeil Hosseinpour,The SWCNTs roles in stress/strain distribution of three-phase multilayered nanocomposite cylinder under combined internal pressure and thermo-mechanical loading,Journal of the Brazilian Society of Mechanical Sciences and Engineering,Vol. 40,No. 8,pp. 391-399,2018.
10. Tabatabaeian, A. , Lotfi, M. , Ghasemi, A. R. , & Roohollahi, S.,Development of a new analytical framework for deflection analysis of un-symmetric hybrid FRP laminates with arbitrary ply arrangement and MWCNT reinforcement,Engineering Structures,2021.
11. Ahmad Reza Ghasemi, Masood Mohandes,Free vibration analysis of micro and nano fiber-metal laminates circular cylindrical shells based on modified couple stress theory,Mechanics of Advanced Materials and Structures,2018.
12. Sarafrazi, M. , Ghasemi, A. R. , Hamadanian, M.,A Semi-analytical and experimental approach using molecular dynamic simulation for thermo-mechanical properties of surface functionalized epoxy/polyurethane/ MWCNT/ ZnMoO4 nano-composites,Fibers and Polymers,2021.
13. Ahmad Reza Ghasemi, Komeil Hosseinpour, Masood Mohandes,Modeling creep behavior of carbon nanotube/fiber/polymer composite cylinders,Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems,2018.
14. احمدرضا قاسمی,علی طباطبائیان,مهدی مرادی,A new insight into impact of thermal cycling on the un-notched and circular hole polymeric composite rings via naval ordnance laboratory-ring test,J COMPOS MATER,Vol. 54,pp. 3287,2020 09 01,SCOPUS ,JCR.
15. Ahmad Reza Ghasemi, Masood Mohandes,Comparison between the frequencies of FML and composite cylindrical shells using beam modal function model,Journal of Computational Applied Mechanics,2018.

16. سیده سارا امیراحمدی,احمدرضا قاسمی,Experimental investigation of cooling conditions, MWCNTs and mandrel diameter effects on the thermal residual stresses of multi-layered filament-wound composite pipes,J COMPOS MATER,2020 06 30,SCOPUS ,JCR.
17. Ahmad Reza Ghasemi, Mohammad Hadi Hajmohammad,Mass and buckling criterion optimization of stiffened carbon/epoxy composite cylinder under external hydrostatic pressure,Latin American Journal of Solids and Structures,Vol. 5,No. 1,2018.
18. مرضیه سرافرازی,احمدرضا قاسمی,مسعود همدانیان,Synergistic effect between CuCr2O4 nanoparticles and plasticizer on mechanical properties of EP/PU/CuCr2O4 nanocomposites: Experimental approach and molecular dynamics simulation,J APPL POLYM SCI,Vol. 137,pp. 1,2020 06 04,SCOPUS ,JCR.
19. Masood Mohandes, Ahmad Reza Ghasemi,Modified couple stress theory and finite strain assumption for nonlinear free vibration and bending of micro/nanolaminated composite Euler–Bernoulli beam under thermal loading,Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science,Vol. 231,No. 21,pp. 4044-4056,2017.
20. احمدرضا قاسمی,بهزاد اصغری,علی طباطبائیان,Determination of the influence of thermo-mechanical factors on the residual stresses of cylindrical composite tubes: Experimental and computational analyses,INT J PRES VES PIP,Vol. 183,pp. 1,2020 06 01,SCOPUS ,JCR.
21. Ahmad Reza Ghasemi, Mahdi Moradi,Open-Hole Size and Thermal Cycling Effectson Mass loss and Sur-face Degradation of Polymer Matrix Composites,Mechanics of Advanced Composite Structures,Vol. 4,No. 2,pp. 111-116,2017.
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23. M Heidari ,& Rarani, AR Ghasemi,Appropriate shape of cohesive zone model for delamination propagation in ENF specimens with R-curve effects,Theoretical and Applied Fracture Mechanics,Vol. 90,pp. 174-181,2017.
24. محمدهادی حاج محمد,علی طباطبائیان,احمدرضا قاسمی,فتح ا... طاهری بهروز,A novel detailed analytical approach for determining the optimal design of FRP pressure vessels subjected to hydrostatic loading: Analytical model with experimental validation,COMPOS PART B-ENG,Vol. 183,pp. 1,2020 03 15,SCOPUS ,JCR.
25. Ahmad Reza Ghasemi, Masood Mohandes,Free vibration analysis of rotating fiber–metal laminate circular cylindrical shells.,Journal of Sandwich Structures & Materials,,2017.
26. احمدرضا قاسمی,مهدی سلیمانی نجف ابادی,Effects of carbon nanotubes distribution on the buckling of carbon nanotubes/fiber/polymer/ metal hybrid laminates cylindrical shell,J SANDW STRUCT MATER,2020 03 04,SCOPUS ,JCR.
27. Ahmad Reza Ghasemi, Mohammad Mohammadi Fesharaki, Masood Mohandes,Three-phase micromechanical analysis of residual stresses in reinforced fiber by carbon nanotubes,Journal of Composite Materials,Vol. 51,No. 12,pp. 1783-1794,2017.
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30. مسعود مهندس,احمدرضا قاسمی,Discrepancies Between Free Vibration of FML and Composite Cylindrical Shells Reinforced by CNTs,Mechanics of Advanced Composite Structures,Vol. 6,pp. 105,2019 11 24,SCOPUS ,ISC.
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TEST,Vol. 80,pp. 1,2019 10 09,SCOPUS ,JCR.

33. احمدرضا قاسمی,محمد مسکینی کارمزدی,Free vibration analysis of porous laminated rotating circular cylindrical shells,J VIB CONTROL,Vol. 25,pp. 2494,2019 09 15,SCOPUS ,JCR.

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35. احمدرضا قاسمی,علی طباطبائیان,مهدی مرادی,Residual stress and failure analyses of polymer matrix composites considering thermal cycling and temperature effects based on classical laminate plate theory,J COMPOS MATER,Vol. 53,pp. 3021,2019 09 01,SCOPUS ,JCR.

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