



Professor Mehmet Aktas

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Department of Mechanical Engineering
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Research Interests:

1. Mechanics of Composite Materials
2. Impact behavior of composite structures,
3. Buckling behavior of structure,
4. Finite element Methods
5. Behaviors and characterization of polymeric materials

Education:

2007 Ph.D., Dokuz Eylül University, Mechanical Engineering
2003 M.Sc., Ege University, Mechanical Engineering

1998 B.Sc., Karadeniz Technical University, Mechanical Engineering

Biography:

Mehmet Aktas is Associate Professor of Mechanical Engineering at Usak University. He received B.Sc. degree in Mechanical Engineering from Karadeniz Technical University in 1998, M.Sc. degree in Mechanical Engineering specializing in plasticity from Ege University in 2003 and Ph.D. degree in Mechanical Engineering specializing in impact behavior of composite structures from Dokuz Eylül University in 2007. He is author and co-author of 27 national and international journal papers His work has been cited over 175 times and his current 'h' index is 8. He is reviewer in 26 high impact-factor journals in engineering and material science. He had performed 7 scientific projects, three of them were supported from "The Scientific and Technological Research Council of Turkey (TÜBİTAK)" and one of them was supported from "The State Planning Organization (DPT)". He is Editor-in-Chief of "Usak University Journal of Material Sciences", a member of International Scientific committee of ICCS16 and ICCS17, a member of scientific committee of KOMPEGE 2013, an editorial board member of 10 international journals, an advisory board of 1 international journal and a reviewer's board member of 2 international journals. His main scientific interests are impact behavior of composite structures, determination of mechanical properties, pin loaded for various composite plates, elasto-plastic stress analysis, buckling behavior of structure, finite element analysis with some commercial software included ABAQUS and ANSYS. Reading is his favorite activity which is covered the majority of his daily time.

Publications:

Aktas, A. Aktas, M. Turan, F., Impact and post impact (CAI) behavior of stitched woven-knit hybrid composites, Composite Part B, (Under Review).

H. Ersen Balcioglu and Mehmet Aktas (Department of Mechanical Engineering, Usak University, Usak 64200, Turkey), "An investigation on lateral buckling of laminated composites with delamination", Indian Journal of Engineering & Material Sciences, Vol. 20, pp. 367-375, October 2013

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- Determination of mechanical properties of glass-epoxy composites in high temperatures, M Aktas, R Karakuzu, Polymer Composites 30 (10), 1437-1441, 2009
- Low temperature effect on impact response of quasi-isotropic glass/epoxy laminated plates, BM İçten, C Atas, M Aktas, R Karakuzu, Composite Structures 91 (3), 318-323, 2009
- Buckling behavior of 1x1 rib knitting laminated plates with cutouts, M Tercan, M Aktas, Composite Structures 89 (2), 245-252, 2009
- Effects of geometric parameters on failure behavior in laminated composite plates with two parallel pin-loaded holes, R Karakuzu, N Taylak, BM İçten, M Aktas, Composite Structures 85 (1), 1-9, 2008
- Failure behavior of laminated composite plates with two serial pin-loaded holes, R Karakuzu, CRI EalIskan, M Aktas, BM İçten, Composite Structures 82 (2), 225-234, 2008
- Temperature effect on impact behavior of laminated composite plates, M Aktas, PhD Thesis, Dokuz Eylul University, 2007
- Investigation of the influence on residual stresses of porosity in high temperature ZrO_2 coatings on Ag tape for magnet technologies, Y Arman, M Aktas, E Celik, IH Mutlu, O Sayman, Materials & Design 28 (9), 2544-2548, 2007
- Effect of orientation angle of elliptical hole on residual stresses and expansion of plastic zone in thermoplastic composite plates under in-plane loading [IPC Code: B29], M Aktas, R Karakuzu, Indian Journal Of Engineering And Materials Sciences 14 (2), 103, 2007
- The influence of hole diameter on residual stresses and plastic zone expansion in steel fiber-reinforced aluminum metal-matrix laminated composite plates under transverse loading, M Aktas, Journal of reinforced plastics and composites 25 (11), 1149-1164, 2006
- Effects of Hardening Parameter and Strain Hardening Exponent on Residual Stress and Plastic Zone Growth in Aluminum Metal-Matrix Composites Under Out of Plane Loading, M Aktas, H Yildiz, O Sayman, Journal of Reinforced Plastics and Composites 23 (18), 2065-2080, 2004
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