

# List of Publications by Dr. Ever J. Barbero

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## Books

1. E. J. Barbero. *Introduction to Composite Materials Design—Third ed.*. CRC Press, Boca Raton, FL, 2018.
2. E. J. Barbero (editor). *Multifunctional Composites*. CreateSpace, Charleston, NC, 2016.
3. E. J. Barbero. *Workbook for Introduction to Composite Materials Design—Second ed.*. CreateSpace, Charleston, NC, 2015.
4. E. J. Barbero. *Finite Element Analysis of Composite Materials Using ANSYS*. CRC Press, 2nd edition, 2014.
5. E. J. Barbero. *Finite Element Analysis of Composite Materials Using Abaqus*. CRC Press, Boca Raton, FL, 2013.
6. E. J. Barbero. *Introduction to Composite Materials Design—Second ed.*. Yes Dee Publishing Pvt. Ltd., Chennai, India, 2011.
7. E. J. Barbero. *Finite Element Analysis of Composite Materials*. CRC Press, Boca Raton, FL, 2008.
8. E. J. Barbero. *Introduction to Composite Materials Design*. Taylor and Francis, Philadelphia, PA, 1999.
9. E. J. Barbero. *On a generalized laminate theory with application to bending vibration, and delamination buckling in composite laminates*. PhD thesis, Virginia Polytechnic Institute and State University, 1989.

## Book Chapters

1. T. I. Muchenik and E. J. Barbero. *Magnetolectric Composites*, in *Multifunctional Composites*, CreateSpace, Charleston, NC, 2016.
2. E. J. Barbero. *Creep and fatigue in polymer matrix composites*, chapter 2: Time-temperature-age superposition principle for predicting long-term response of linear viscoelastic materials, pages 48–69. Woodhead, Cambridge (ISBN978-1-84569-525-5), 2010.
3. James G Hemrick, Jing Xu, Klaus-Markus Peters, Xingbo Liu, and Ever Barbero. *Wetting and Reaction Characteristics of Al<sub>2</sub>O<sub>3</sub>/SiC Composite Refractories by Molten Aluminum and Aluminum Alloy*, chapter : ?, pages 347–357. John Wiley & Sons, Inc., 2009.

4. Ford K. J. Barbero, E. J. and J. A. Mayugo. *Self-healing materials*, chapter 9: Modeling Self-healing of Fiber-reinforced Polymer-matrix Composites with Distributed Damage. Wiley-VCH, 2009.
5. X. Martinez, S. Oller, and E. J. Barbero. *ECCOMAS Series Mechanical Response of Composites*, chapter 6: Study of Delamination in Composites by Using the Serial/Parallel Mixing Theory and a Damage Formulation, pages 119–140. Springer, Dordrecht, Netherlands, 2008.
6. L. A. Godoy and E. J. Barbero. *Análisis y cálculo de estructuras de materiales compuestos*, chapter : Inestabilidad de compuestos laminados-modelado computacional mediante la teoria general de estabilidad elastica, pages 47–83. CIMNE, Barcelona, Spain, 2002.
7. L. A. Godoy, L. I. Almanzar, and E. J. Barbero. *Thin-Walled Structures: Research and Development*, chapter : Postbuckling and first ply failure of thin walled frames and columns made of composite materials, pages 297–303. Elsevier, Oxford, UK, 1998.
8. E. J. Barbero. *Handbook of Composites*, chapter Chapter 46: Construction, pages 982–1003. Thompson Science/Chapman & Hall, 2nd edition, 1998.
9. H. V. S. GangaRao and E. J. Barbero. *Construction, Structural Applications*, volume 6. International Encyclopedia of Composites, 1991.

## Patents

1. E. J. Barbero. Modular fiber reinforced polymer composite deck system, 2003. US Patent #6,544,624.
2. E. J. Barbero. Modular fiber reinforced polymer composite deck system, 2002. US Patent #6,455,131.

## Journal Publications

- [1] G. H. Kaufmann, A. M. Lopergolo, S. R. Idelsohn, and E. J. Barbero. Evaluation of finite-element calculations in a part-circular crack by coherent optics techniques. *Experimental Mechanics*, 27(2):154–157, 1987. [papers/1987/87KaufmannLopergoloEvaluationOfFinite-Element.pdf](#).
- [2] J.N. Reddy, E.J. Barbero, and J.L. Teply. Plate bending element based on a generalized laminate plate theory. *International Journal for Numerical Methods in Engineering*, 28(10):2275–2292, 1989. [papers/1989/89ReddyBarberoAPlateBendingElement.pdf](#).
- [3] E. J. Barbero and J. N. Reddy. Nonlinear analysis of composite laminates using a generalized laminated plate theory. *AIAA Journal*, 28(11):1987–1994, 1990. [papers/1990/90BarberoReddyNonlinearAnalysis.pdf](#).
- [4] E.J. Barbero, G.H. Kaufmann, and S.R. Idelsohn. Fracture analysis of a surface-coated ceramic by speckle photography and finite elements. *Optics and Laser Technology*, 22(1):17–22, 1990. [papers/1990/90BarberoKaufmannFractureAnalysis.pdf](#).

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