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Selected Publications:

Carrera, E.; Brischetto, S.; and Giunta, G., “The Best on Plate/Shell Theories for Laminated Structures Analysis”, Proceedings of the AIAA/ASME/ASCE/AHS/ASC 49th Structures, Structural Dynamics and Materials Conference, 2008, AIAA Paper No. 2008-2187.

Carrera, E., Giunta, G., 2009. Hierarchical evaluation of failure parameters in composite plates. *AIAA Journal*, 47(3):692-702.

E. Carrera and G. Giunta, “Refined beam theories based on Carrera’s unified formulation”, *International Journal of Applied Mechanics*, 2(1):117-143 (2010).

E. Carrera, G. Giunta, P. Nali, and M. Petrolo, “Refined beam elements with arbitrary cross-section geometries”, *Computers and Structures*, 88(5-6):283-293 (2010).

E. Carrera, G. Giunta, M. Petrolo, and M. Maiarù, “Refined Beam Elements for the Multiscale Analysis of Fiber-Reinforced Composite Structures”, 16th International Conference on Composite Structures ICCS 16, edited by A. J. M. Ferreira, 2011

M. Petrolo, E. Carrera, G. Giunta, *Beam structures: classical and advanced theories*, John Wiley and Sons (2011)

Qun Huang, Jie Yang, Wei Huang, Yin Liu, Heng Hu, Gaetano Giunta and Salim Belouettar, “A new Fourier-related double scale analysis for wrinkling analysis of thin films on compliant substrates”, *Composite Structures*, Vol. 160, pp 613-624, January 2017

Y. Hui, G. Giunta, S. Belouettar, Q Huang, H. Hu and E. Carrera, “A free vibration analysis of three-dimensional sandwich beams using hierarchical one-dimensional finite elements”, *Composites Part B: Engineering*, Vol. 110, pp 7-19, February 2017

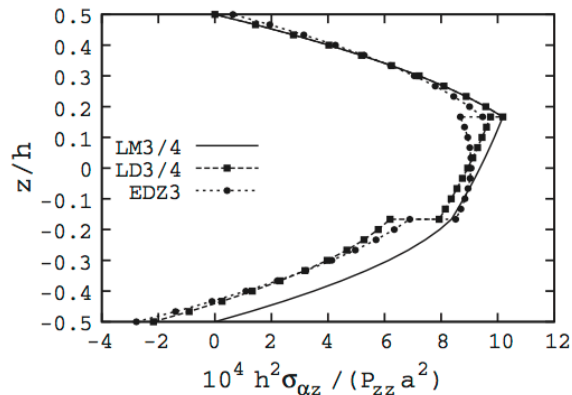


Fig. 4. Dimensionless transverse shear stress $\bar{\sigma}_{zz}$ along the thickness at $(0, b/2)$ for $[0/90/0]$ shell, $a/h = 100$, $R/a = 5$, bi-sinusoidal loading.

From: Giunta, G.; Biscani, F.; Belouettar, S.; and Carrera, E.: Hierarchical Modelling of Doubly Curved Laminated Composite Shells Under Distributed and Localised Loadings. *Composites: Part B*, vol. 42, 2011, pp. 682-691

Qun Huang, Rui Xu, Yin Liu, Heng Hu, Gaetano Giunta, Salim Belouettar and Michel Potier-Ferry, “A two-dimensional Fourier-series finite element for wrinkling analysis of thin films on compliant substrates”, *Thin-Walled Structures*, Vol. 114, pp 144-153, May 2017

Qun Huang, Yin Liu, Heng Hu, Qian Shao Kun Yu, Gaetano Giunta, Salim Belouettar and Michel Potier-Ferry, “A Fourier-related double scale analysis on the instability phenomena of sandwich plates”, *Computer Methods in Applied Mechanics and Engineering*, Vol. 318, pp 270-295, May 2017