



Professor Salvatore Brischetto

Erasmo Carrera, Salvatore Brischetto and Pietro Nali, Plates and shells for smart structures, John Wiley and Sons, 2011, 352 pages

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Department of Mechanical and Aerospace Engineering
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Biography:

Dr. Salvatore Brischetto, after earning his degree in Aerospace Engineering at the Politecnico di Torino in 2005, received his PhD in Aerospace Engineering (Politecnico di Torino) and in Mechanics (Université Paris Ouest–Nanterre La Défense) in 2009. He won the excellence prize for PhD students in 2008 and the prize for young researchers in 2011 at the Politecnico di Torino. He worked as a Research Assistant in the Department of Mechanical and Aerospace Engineering at the Politecnico di Torino from 2006 to 2010, and has been Assistant Professor in the same department since 2010. He is the author of more than 80 scientific articles, more than 50 of which have been published in international journals. He serves as a reviewer for more than 30 international journals. Dr. Brischetto is a committee member for the 2014 prize “Premio Nazionale di Divulgazione Scientifica” organized by AIL and for the journal "Scienze e Ricerche". He has been teaching assistant at the Politecnico di Torino for courses on computational aeroelasticity, structures for aerospace vehicles, nonlinear analysis of aerospace structures and principles of structural mechanics. He was chair professor for the course “Aeronautic law and human factors and safety” at Politecnico di Torino for the academic years 2013/2014 and 2014/2015.

Research Interests:

Aerospace structures, in particular: smart structures, composite materials, multifield problems, FGMs, thermal and hygroscopic stress analysis, carbon nanotubes, inflatable structures, plate and shell finite elements, exact 2D and 3D solutions for plates and shells.

Selected Publications:

Book:

Erasmus Carrera, Salvatore Brischetto and Pietro Nali, *Plates and shells for smart structures* (Google eBook), John Wiley and Sons, 2011, 352 pages

Journal Articles, etc.:

Erasmus Carrera, Salvatore Brischetto, Alessandro Robaldo, Variable kinematic model for the analysis of functionally graded material plates, *AIAA J*, 46 (1) (2008), pp. 194–203

Brischetto S, Carrera E. Advanced mixed theories for bending analysis of functionally graded plates. *Comput Struct* 2008;88(23–24):1474–83.

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.; Nali, P.; Brischetto, S.; and Cinefra, M., “Hierarchic Plate and Shell Theories With Direct Evaluation of Transverse Electric Displacement”, *Proceedings of the AIAA/ASME/ASCE/AHS/ASC 50th Structures, Structural Dynamics and Materials Conference*, 2009, AIAA Paper 2009-2138.

E. Carrera and S. Brischetto, “A survey with numerical assessment of classical and refined theories for the analysis of sandwich plates”, *Appl. Mech. Rev.* 62 (010803) (2009), pp. 1–17.

Brischetto S, Carrera E, Demasi L. Improved response of unsymmetrically laminated sandwich plates by using zig-zag functions. *J Sandwich Struct Mater* 2009;11(2–3):257–67.

Carrera, E., Brischetto, S.. A comparison of various kinematic models for sandwich shell panels with soft core. *Journal of Composite Materials* 2009;43(20):2201–2221

Carrera E, Brischetto S, Cinefra M, Soave M. Refined and advanced models for multilayered plates and shells embedding functionally graded material layers. *Mech Adv Mater Struct* 2010;17(8):603–21.

Cinefra M, Carrera E, Brischetto S, Belouettar S. Thermo-mechanical analysis of functionally graded shells. *J Therm Stress* 2010;33(10):942–63.

E. Carrera, S. Brischetto, M. Cinefra, M. Soave, Effects of thickness stretching in functionally graded plates and shells, *Composites Part B: Engineering* 42 (2011) 123–133.

Brischetto, S.; Polit, O.; and Carrera, E.: Refined Shell Model for the Linear Analysis of Isotropic and Composite Elastic Structures. *European Journal of Mechanics A/Solids*, vol. 34, 2012, pp. 102–119.

Brischetto S, Leetsch R, Carrera E, Wallmersperger T, Kröplin B. Thermo-mechanical bending of functionally graded plates. *J Therm Stress* 2013;31:37–41.

S. Brischetto, F. Tornabene, N. Fantuzzi and M. Baccocchi, “Interpretation of boundary conditions in the analytical and numerical shell solutions for mode analysis of multilayered structures”, *International Journal of Mechanical Sciences*, Vol. 122, pp 18–28, March 2017

Salvatore Brischetto, “Exact three-dimensional static analysis of single- and multi-layered plates and shells”, *Composites Part B: Engineering*, Vol. 119, pp 230–252, June 2017

Salvatore Brischetto, “A general exact elastic shell solution for bending analysis of functionally graded structures”, *Composite Structures*, Vol. 175, pp 70–85, September 2017