



Professor Erasmo Carrera

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After earning two degrees (Aeronautics, 1986, and Aerospace Engineering, 1988) at the Politecnico di Torino, Erasmo Carrera received his PhD degree in Aerospace Engineering jointly at the Politecnico di Milano, Politecnico di Torino, and Università di Pisa in 1991. He began working as a Researcher in the Department of Aerospace Engineering for the Politecnico di Torino in 1992 where he held courses on Missiles and Aerospace Structure Design, Plates and Shells, and the Finite Element Method. He became Associate Professor of Aerospace Structures and Computational Aeroelasticity in 2000, and Full Professor at the Politecnico di Torino in 2011. He has visited the University of Stuttgart twice, the first time as a PhD student (six months in 1991) and then as Visiting Scientist under a GKKS Grant (18 months in 1995–1996). In the summers of 1996, 2003 and 2009, he was Visiting Professor at the ESM Department of Virginia Tech, at SUPMECA in Paris (France) and at the CRP TUDOR in Luxembourg, respectively.

His main research topics are: composite materials, finite elements, plates and shells, postbuckling and stability, smart structures, thermal stress, aeroelasticity, multibody dynamics, and the design and analysis of non-classical lifting systems. He is author of more than 350 articles on these topics, many of which have been published in international journals.

He serves as referee for international journals and as a contributing editor for *Mechanics of Advanced Materials and Structures*, *Composite Structures*, *Journal of Thermal Stress*, *Computer and Structures* and *International Journal of Aeronautical and Space Sciences*.

Selected very recent publications:

1. Effects of thickness stretching in functionally graded plates and shells, E. Carrera, S. Brischetto, M. Cinefra, M. Soave, *COMPOS PART B-ENG*, vol. 42, no. 2, pp. 123-133, 2011
2. Accuracy of refined finite elements for laminated plate analysis, E. Carrera, F. Miglioretti, M. Petrolo, *COMPOS STRUCT*, vol. 93, no. 5, pp. 1311-1327, 2011
3. Assessments of refined theories for buckling analysis of laminated plates, P. Nali, E. Carrera, S. Lecca, *COMPOS STRUCT*, vol. 93, no. 2, pp. 456-464, 2011
4. Radial basis functions–finite differences collocation and a Unified Formulation for bending, vibration and buckling analysis of laminated plates, according to Murakami’s zig-zag theory, J. D. Rodrigues, C. M. C. Roque, A. J. M. Ferreira, E. Carrera, M. Cinefra, *COMPOS STRUCT*, vol. 93, no. 7, pp. 1613-1620, 2011
5. Variable kinematic beam elements coupled via Arlequin method, F. Biscani, G. Giunta, S. Belouettar, E. Carrera, H. Hu, *COMPOS STRUCT*, vol. 93, no. 2, pp. 697-708, 2011