



Professor Walter Lacarbonara

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Biography:

Walter Lacarbonara is a Full Professor of Nonlinear Mechanics at Sapienza University. During his graduate education he was awarded a MS in Structural Engineering (Sapienza University) and a MS in Engineering Mechanics (Virginia Tech, USA), and a PhD in Nonlinear Structural Dynamics. His research interests cover nonlinear structural dynamics; asymptotic techniques; nonlinear control of vibrations; experimental nonlinear dynamics; stability of long-span bridges and structures; macro and nanocomposites. He is Associate Editor of the Journal of Sound and Vibration, the ASME Journal of Applied Mechanics, the ASME Journal of Vibration and Acoustics, Nonlinear Dynamics and the International Journal of Aeronautical and Space Sciences. He serves in the Editorial Boards of Nonlinear Dynamics, Journal of Sound and Vibration, the ASME Journal of Applied Mechanics, the ASME Journal of Vibration and Acoustics, Heliyon (Elsevier), World Journal of Nano Science and Engineering, Open Journal of Composite Materials. He is currently serving as vice-Chair of the ASME Technical Committee on Multibody System and Nonlinear Dynamics. He served as general co-Chair and technical program co-Chair of the ASME 2015 (Boston, USA) and 2013 (Portland, USA) IDETC

Conferences. He has organized more than 10 international symposia and conference sessions. His research is supported by several national and international sources. Among the most recent grants, PI of a European Office of Aerospace Research and Development/Air Force Office of Scientific Research Grant (Bridging high strength and dissipation in carbon nanotube composites); PI of a POMA Grant (Dynamics and control of ropeway towers and vehicles); co-Pi of a MIUR PRIN grant. He has been awarded international fellowships such as JSPS (Tsukuba, Japan); IPST (College Park, MD, USA); IFSTTAR (Paris, France). He has published over 220 papers and conference proceedings, 3 patents, 9 book chapters, and a Springer book (Nonlinear Structural Mechanics, for which he received the 2013 Texty Award nomination by Springer New York. His h-index is 17 (Scopus/ISI Web of Science), 27 (Google Scholar, number of citations=2270).

Selected Publications:

Book:

Walter Lacarbonara, *Nonlinear Structural Mechanics: Theory, Dynamical Phenomena and Modeling*, Springer, 2013, 802 pages

Journal Articles, etc.:

Walter Lacarbonara, “Concepts, Methods, and Paradigms”, Chapter in *Nonlinear Structural Mechanics*, edited by Walter Lacarbonara, Springer, 2013, pp 10-66 (with a total of 480 references), **The following citations to the work in which Lacarbonara participated are included as references in that paper:**

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