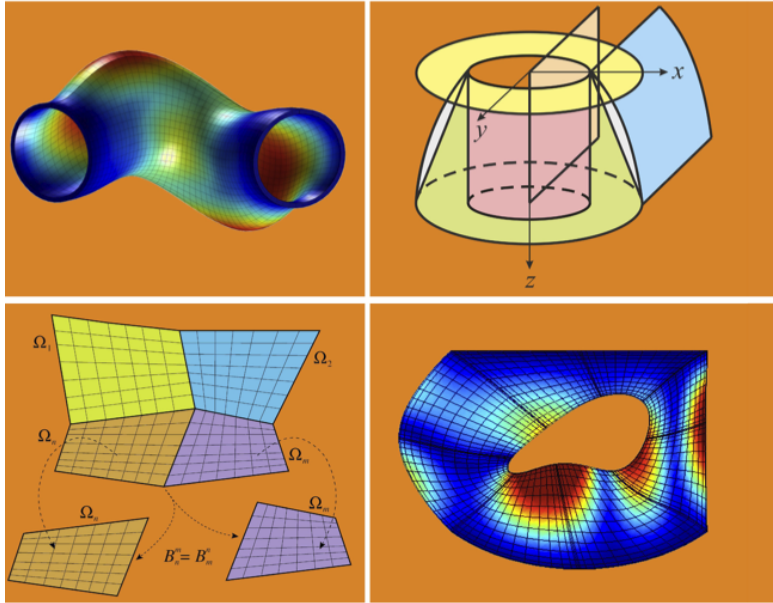


# Mechanics of Laminated Composite Doubly-Curved Shell Structures

The Generalized Differential Quadrature Method  
and the Strong Formulation Finite Element Method



Francesco Tornabene  
Nicholas Fantuzzi



**Professor Nicholas Fantuzzi**

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Department of Civil, Chemical, Environmental and Materials—DICAM  
University of Bologna, Italy

## Short Biography:

Nicholas Fantuzzi got his Master degree in Civil Engineering at the University of Bologna in 2009 cum laude.

PhD in Structural Engineering and Hydraulics at the University of Bologna in 2013.

Research Fellow from 2013 to 2017 at the DICAM Department.

Adjunct Professor at the School of Engineering and Architecture, University of Bologna.

Member of Scientific Committee, Promoter and Secretary of CIMEST Center, Center for Studies and Research on the Identification of Materials and Structures - “Michele Capurso” - at the Department DICAM of the Alma Mater Studiorum - University of Bologna.

Assistant Editor and Editorial Board Member of the International Journal Curved and Layered Structures since 2014.

**Research Interests:**

Mechanics of structures, Theory of plates and shells, Computational mechanics; Generalized differential quadrature

**Selected Publications:**

**Book:**

Francesco Tornabene & Nicholas Fantuzzi, *Mechanics of Laminated Composite Doubly-Curved Shell Structures*, Publisher: Esculapio, ISBN: 978-88-7488-647-6

**Journal articles:**

Erasmus Viola, Luigi Rossetti Nicholas Fantuzzi, “Numerical investigation of functionally graded cylindrical shells and panels using the generalized unconstrained third order theory coupled with the stress recovery”, *Composite Structures*, Vol. 94, No. 12, pp 3736-3758, December 2012

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Tornabene, F., Fantuzzi, N., Baccocchi, M. (2014). Free vibrations of free-form doubly-curved shells made of functionally graded materials using higher-order equivalent single layer theories, *Composite Part B Engineering*, 67:490-509

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