



**Professor Eliseu Lucena Neto**

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Department of Structures and Buildings  
Instituto Tecnológico de Aeronáutica (ITA), 12225, São José dos Campos-SP, Brazil

**Autobiography:**

Graduated in Civil Engineering from the Federal University of Ceará (1981), master's degree in aeronautical engineering from the Technological Institute of Aeronautics (1984) and a PhD in Structural Mechanics at Imperial College of Science Technology and Medicine - University of London (1992). He is currently full professor in the Technological Institute of Aeronautics, where he served as Coordinator of the Graduate Course in Aeronautical Infrastructure Engineering (1994-1995), Chief of the Division of Infrastructure Aeronautical Engineering (1996-2002) and Coordinator of Graduate in Aeronautical Infrastructure Engineering (2003-2005) and Civil-Aeronautical Engineering (from 2009).

**Subjects taught:**

EDI-31 Structural Analysis I ( graduation )

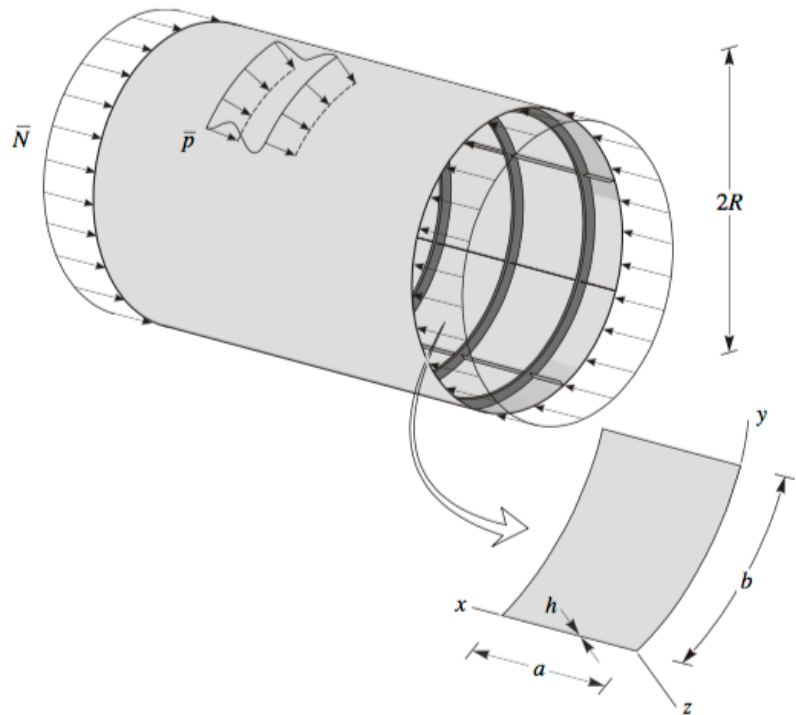


Figure 1. Circular cylindrical fuselage.

From: F.A.C. Monteiro, E. Lucena Neto and J.A. Hernandez, "Local skin buckling of cylindrical shells", Blucher Mechanical Engineering Proceedings, Vol. 1, No. 1, May 2014

EDI-32 Structural Analysis II ( undergraduate )  
AE-207 Theory of Plates and Shells ( postgraduate )  
IG-209 Basics of elasticity and plasticity ( postgraduate )

**Research Interests:**

Nonlinear structures, Plastic limit analysis, Balance stability, Piezoelectric structures, Finite element method

**Selected Publications:**

G.W. Hunt (1) and E. Lucena Neto, “Localized buckling in long axially-loaded cylindrical shells”, Journal of the Mechanics and Physics of Solids, Vol. 39, No. 7, 1991, pp. 881-894

G. W. Hunt and E. Lucena Neto. Maxwell critical loads for axially loaded cylindrical shells. ASME J. Appl. Mech., 60(3):702–706, 1993

F.A.C. Monteiro, E. Lucena Neto and J.A. Hernandez, “Local skin buckling of cylindrical shells”, Blucher Mechanical Engineering Proceedings, Vol. 1, No. 1, May 2014