

Professor Marcelo Tulio Piovan

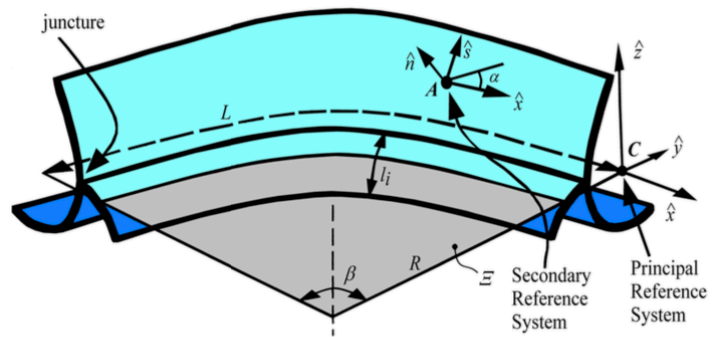


Figure 1: Sketch of the thin walled curved beam with the reference systems

From: Marcelo Tulio Piovan and Rubens Sampaio, "Parametric and non-parametric probabilistic approaches for the mechanics of thin walled composite curved beams", *Thin-Walled Structures*, Vol. 90, May 2015

See:

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Universidad Tecnológica Nacional, Facultad Regional Bahía Blanca, Argentina

Education:

2004-2006 Pontificia Universidade Católica do Rio de Janeiro, Postdoctoral researcher, Drillstring dynamics and dynamics of structures in general

1997-2003 Universidad Nacional del Sur, Ph.D, Structures of composite materials

1988-1994 Universidad Tecnológica Nacional, Engineer's Degree, Mechanical Engineering

Selected Publications:

V.H. Cortinez and M.T. Piovan, "Vibration and buckling of composite thin-walled beams with shear deformability", *Journal of Sound and Vibration*, Vol. 258, No. 4, 5 December 2002, pp 701-723

Víctor H. Cortinez and Marcelo T. Piovan (Grupo de Análisis de Sistemas Mecánicos, Universidad Tecnológica Nacional (FRBB), Bahía Blanca, Argentina), "Stability of composite thin-walled beams with shear deformability", *Computers & Structures*, Vol. 84, Nos. 15-16, June 2006, pp. 978-990

Marcelo T. Piovan and Víctor H. Cortínez, "Mechanics of shear deformable thin-walled beams made of composite materials", *Thin-Walled Structures*, Vol. 45, No. 1, January 2007, pp. 37-62

Carlos P. Filipich and Marcelo Tulio Piovan, "The dynamics of thick curved beams constructed with functionally graded materials", *Mechanics Research Communications*, Vol. 37, No. 6, pp 565-570, September 2010

Marcelo Tulio Piovan and S.P. Machado, "Thermoelastic dynamic stability of thin-walled beams with graded material properties", *Thin-Walled Structures*, Vol. 49, No. 3, pp 437-447, March 2011

Marcelo Tulio Piovan, Rubens Sampaio and Jose M. Ramirez, "Dynamics of rotating non-linear thin-walled composite beams: Analysis of modeling uncertainties", Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 34, January 2012

Marcelo Tulio Piovan, S. Domini and J.M. Ramirez, "In-plane and out-of-plane dynamics and buckling of functionally graded circular curved beams", Composite Structures, Vol. 94, No. 11, pp 3194-3206, November 2012

Sebastian P. Machado and Marcelo Tulio Piovan, "Nonlinear dynamics of rotating box FGM beams using nonlinear normal modes", Thin-Walled Structures, Vol. 62, pp 158-168, January 2013

Marcelo Tulio Piovan, J.M. Ramirez and Rubens Sampaio, "Dynamics of thin-walled composite beams: Analysis of parametric uncertainties", Composite Structures, Vol. 105, pp 14-28, November 2013

Marcelo Tulio Piovan, Fernando Olmedo and Rubens Sampaio, "Dynamics of magneto electro elastic curved beams: Quantification of parametric uncertainties", Composite Structures, Col. 133, July 2015

Marcelo Tulio Piovan and Rubens Sampaio, "Parametric and non-parametric probabilistic approaches for the mechanics of thin walled composite curved beams", Thin-Walled Structures, Vol. 90, May 2015