



Professor Salim Belouettar

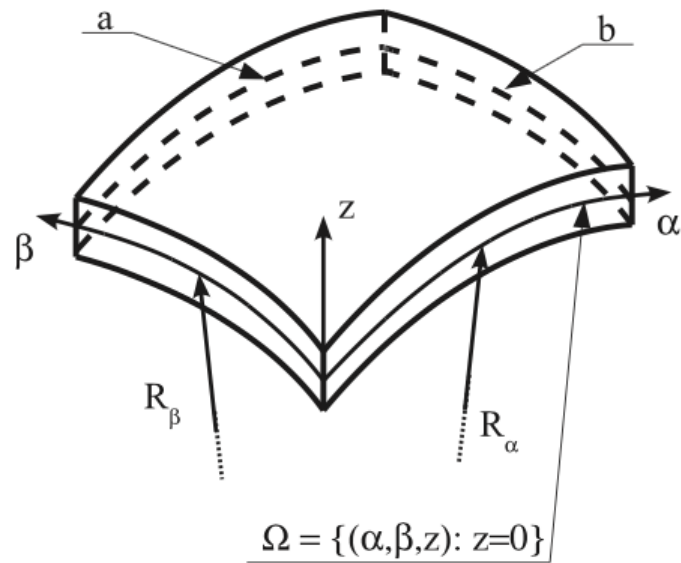


Fig. 1. Shell geometry and reference system.

From: G. Giunta, F. Biscani, S. Belouettar, E. Carrera, Hierarchical modelling of doubly curved laminated composite shells under distributed and localised loadings, *Compos. Part B Eng.* 42 (2011), 682–691.

See:

<https://scholar.google.com/citations?user=mj9a8esAAAAJ&hl=fr>

https://www.researchgate.net/profile/Salim_Belouettar

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Selected Publications:

Hu, H.; Belouettar, S.; Potier-Ferry, M.; and Daya, El M., “Review and Assessment of Various Theories for Modeling Sandwich Composites”, *Composite Structures*, vol. 84, 2008, pp. 282- 292.

Ahmed Abbadi A, Koutsawa Y, Carmasol A, Belouettar S, Azari Z(2009) Experimental and numerical characterization of honeycomb sandwich composite panels, *Simulation Modelling Practice and Theory*, 1533-1547

Belouettar S, Abbadi A, Azari Z, Belouettar R, Freres P (2009) Experimental investigation of static and fatigue behavior of composites honeycomb materials using four point bending tests. *J Compos Struct* 87(3):265–273

Cinefra M, Belouettar S, Soave M, Carrera E. Variable kinematic models applied to free vibration analysis of functionally graded material shells. *Eur J Mech – A/Solids* 2010;29(6):1078–87.

Cinefra M, Carrera E, Brischetto S, Belouettar S. Thermo-mechanical analysis of functionally graded shells. *J Therm Stress* 2010;33(10):942–63.

Hu H., Belouettar S., Potier-Ferry M., Makradi A., Koutsawa Y.: Assessment of various kinematic models for instability analysis of sandwich beams. *Eng. Struct.* 2011, 572–579 (2011)

G. Giunta, F. Biscani, S. Belouettar, E. Carrera, Hierarchical modelling of doubly curved laminated composite shells under distributed and localised loadings, *Compos. Part B Eng.* 42 (2011), 682–691.

L. Bouhala, A. Makradi, and S. Belouettar, Thermal and thermo-mechanical influence on crack propagation using an extended mesh free method, *Engineering Fracture Mechanics*, vol. 88, pp. 35–48, 2012.

Liu Y, Yu K, Hu H, Belouettar S, Potier-Ferry M: A Fourier-related double scale analysis on instability phenomena of sandwich beams. *Int J Solids Struct* 2012, 49: 3077–3088. 10.1016/j.ijsolstr.2012.06.005

Kodjo Attipou, Heng Hu, Foudil Mohri, Michel Potier-Ferry and Salim Belouettar, “Analysis of buckling and wrinkling of plate under thermo-mechanical loading using a Fourier-related multi-scale approach”, The 6th International Conference on Coupled Instabilities in Metal Structures, December 2012

Yu K, Hu H, Chen S, Belouettar S, Potier-Ferry M: Multi-scale techniques to analyze instabilities in sandwich structures. *Compos Struct* 2013, 96: 751–762.

Q. Huang, H. Hu, K. Yu, M. Potier-Ferry, S. Belouettar, and N. Damil. Macroscopic simulation of membrane wrinkling for various loading cases. *Int. J. Sol. Struct.*, 64-65:246–258, 2014.

Natarajan S., Deogekar P.S., Manickam G., Belouettar S.: Hygrothermal effects on the free vibration and buckling of laminated composites with cutouts. *Compos. Struct.* 108, 848–855 (2014)

Xu, F., Potier-Ferry, M., Belouettar, S., Cong, Y., “3D finite element modeling for instabilities in thin films on soft substrates”, *Int. J. Solids Struct.* 51, 3619–3632., October 2014

Xu, F., Koutsawa, Y., Potier-Ferry, M., Belouettar, S., “Instabilities in thin films on hyperelastic substrates by 3D finite elements”, *Int. J. Solids Struct.* 69–70, 71–85., 2015

Xu, F., Potier-Ferry, M., Belouettar, S., Hu, H., 2015. Multiple bifurcations in wrinkling analysis of thin films on compliant substrates. *Int. J. Nonlinear Mech.* 76, 203–222.

Kodjo Attipou, Heng Hu, Foudil Mohri, Michel Potier-Ferry and Salim Belouettar, “Thermal wrinkling of thin membranes using a Fourier-related double scale approach”, *Thin-Walled Structures*, Vol. 94, pp 532-544, September 2015

Qun Huang, Jie Yang, Wei Huang, Yin Liu, Heng Hu, Gaetano Giunta and Salim Belouettar, “A new Fourier-related double scale analysis for wrinkling analysis of thin films on compliant substrates”, *Composite Structures*, Vol. 160, pp 613-624, January 2017

Y. Hui, G. Giunta, S. Belouettar, Q Huang, H. Hu and E. Carrera, “A free vibration analysis of three-dimensional sandwich beams using hierarchical one-dimensional finite elements”, *Composites Part B: Engineering*, Vol. 110, pp 7-19, February 2017

Qun Huang, Rui Xu, Yin Liu, Heng Hu, Gaetano Giunta, Salim Belouettar and Michel Potier-Ferry, “A two-dimensional Fourier-series finite element for wrinkling analysis of thin films on compliant substrates”, *Thin-Walled Structures*, Vol. 114, pp 144-153, May 2017

Qun Huang, Yin Liu, Heng Hu, Qian Shao Kun Yu, Gaetano Giunta, Salim Belouettar and Michel Potier-Ferry, “A Fourier-related double scale analysis on the instability phenomena of sandwich plates”, *Computer Methods in Applied Mechanics and Engineering*, Vol. 318, pp 270-295, May 2017