



Professor Marc P. Mignolet

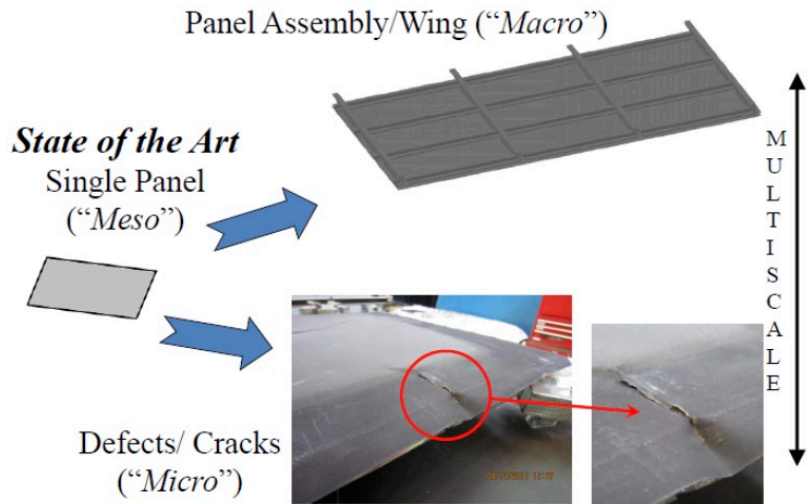


Figure 1. Multiscale structural perspective for hypersonic vehicles.

From: Marc P. Mignolet, "Multiscale reduced order modeling of complex multi-bay structures", AFRL-OSR-VA-TR-2013-0366, Air Force Research Laboratory, AF Office of Scientific Research (AFOSR), Final Report, 2013

See:

<https://isearch.asu.edu/profile/64076>

<https://asu.pure.elsevier.com/en/persons/marc-mignolet>

https://www.researchgate.net/scientific-contributions/2047146079_Marc_P_Mignolet

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Selected Publications:

- Yang, B., Mignolet, M. P., and Spottswood, S. M., 2004, "Modeling of damage accumulation for Duffing-type systems under severe random excitations," *Prob.Eng.Mech.*, 19, 1, 185-194
- Mignolet., M.P., and Radu, A.G., "Validation of Reduced Order Modeling for the Prediction of the Response and Fatigue Life of Panels Subjected to Thermo-Acoustic Effects", *Proceedings of the VIII International Conference on Recent Advances in Structural Dynamics*, edited by M. Brennan, et al., The Institute of Sound and Vibration Research, University of Southampton, (date not given)
- Mignolet MP, Soize C. 2008 Stochastic reduced order models for uncertain geometrically nonlinear dynamical systems. *Comp. Methods Appl. Mech. Eng.* 197, 3951–3963.
- E. Capiez-Lernout, C. Soize and M.-P. Mignolet, "Computational stochastic statics of an uncertain curved structure with geometrical nonlinearity in three-dimensional elasticity", *Computational Mechanics*, Vol. 49, No. 1, pp 87-97, January 2012
- E. Capiez-Lernout, C. Soize and M.-P. Mignolet, "Uncertainty quantification for post-buckling analysis of cylindrical shells with experimental comparisons", *Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS)*, Vienna, Austria, 2012
- Murthy, R., X. Wang, R. Perez, M.-P. Mignolet, & L. Richter (2012). Uncertainty-based experimental validation of non-linear reduced order models. *Journal of Sound and Vibration* 331
- Marc P. Mignolet, Adam Przekop, Stephen A. Rizzi and S. Michael Spottswood, "A review of indirect/non-intrusive reduced order modeling of nonlinear geometric structures", *Journal of Sound and Vibration*, Vol. 332, No. 10, pp 2437-2460, May 2013E. Capiez-Lernout, C. Soize and M.-P. Mignolet, "Computational Nonlinear

Stochastic Dynamics With Model Uncertainties and Nonstationary Stochastic Excitation”, published in ICOSAR 2013, 11th International Conference on Structural Safety and Reliability, New-York : United States (2013)

E. Capiez-Lernout, C. Soize and M.-P. Mignolet, “Nonlinear stochastic dynamical post-buckling analysis of uncertain cylindrical shells”, 11th International Conference, 1-3 July, 2013, Pisa, Italy (RASD 2013)

Marc P. Mignolet, “Multiscale reduced order modeling of complex multi-bay structures”, AFRL-OSR-VA-TR-2013-0366, Air Force Research Laboratory, AF Office of Scientific Research (AFOSR), Final Report, 2013

Ricardo Perez, X.Q. Wang and Marc P. Mignolet, “Reduced order model for the geometric nonlinear response of complex structures, Journal of Computational and Nonlinear Dynamics, Manuscript CND-13-1181. (2013?)

E. Capiez-Lernout, C. Soize, M. P. Mignolet, “Post-buckling nonlinear static and dynamical analyses of uncertain cylindrical shells and experimental validation”, Computational Methods in Applied Mechanics and Engineering, 2014, 271 (1), Pages: 210-230.