



**Professor Qun Huang**

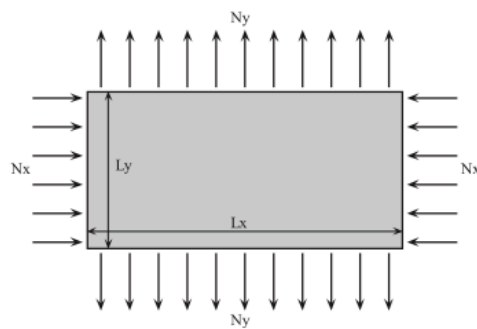


Fig. 2. Rectangular membrane under biaxial load.

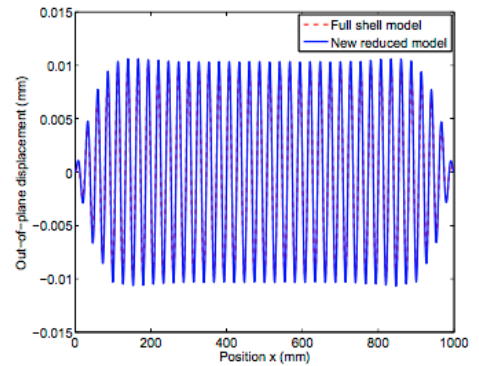


Fig. 5. Central cross section ( $Y = 100$  mm) of a rectangular membrane under biaxial load near bifurcation point,  $N_y = 10$  N/mm,  $N_x = -0.0905$  N/mm.

From: Qun Huang, Heng Hu, Kun Yu, Michel Potier-Ferry, Salim Belouettar and Noureddine Damil, “Macroscopic simulation of membrane wrinkling for various loading cases”, *International Journal of Solids and Structures*, Vol. 64-6, pp 246-258, July 2015

See:

[https://www.researchgate.net/profile/Qun\\_Huang](https://www.researchgate.net/profile/Qun_Huang)

<https://scholar.google.com/citations?user=N9GtMRAAAAAAJ&hl=zh-CN>

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### Selected Publications:

Jie Yang, Qun Huang, Heng Hu, Gaetano Giunta, Salim Belouettar and Michel Potier-Ferry, “A new family of finite elements for wrinkling analysis of thin films on compliant substrates”, *Composite Structures*, Vol. 119, pp 568-577, January 2015

Qun Huang, Heng Hu, Kun Yu, Michel Potier-Ferry, Salim Belouettar and Noureddine Damil, “Macroscopic simulation of membrane wrinkling for various loading cases”, *International Journal of Solids and Structures*, Vol. 64-6, pp 246-258, July 2015

Michel Potier-Ferry, Foudil Mohri, Fan Xu, Noureddine Damil, Bouazza Braikat, Khadija Mhada, Heng Hu, Qun Huang and Saeid Nezamabadi, “Cellular instabilities analyzed by multi-scale Fourier series: A review”, *Discrete and Continuous Dynamical Systems Series S*, Vol. 9, No. 2, pp 585-597, April 2016

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

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

Yin Liu, Shenyang Liang, Qun Huang, Heng Hu, Yonggang Zheng, Hongwu Zhang and Qian Shao, “A robust Riks-like path following method for strain-actuated snap-through phenomena in soft solids”, *Computer Methods in Applied Mechanics and Engineering*, Vol. 323, pp 416-438, August 2017

Jongchol Choe, Qun Huang, Jie Yang and Heng Hu, “An efficient approach to investigate the post-buckling behaviors of sandwich structures”, *Composite Structures*, Vol. 201, pp 377-388, 1 October 2018