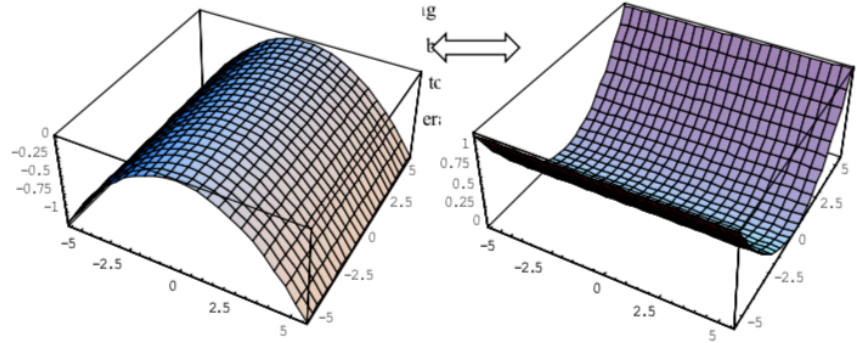




Professor Samir A. Emam



From: Samir A. Emam, “Snapthrough and free vibration of bistable composite laminates using a simplified Rayleigh-Ritz model”, *Composite Structures*, Vol. 206, pp 403-414, 15 December 2018

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Summary:

Samir Emam’s areas of expertise include nonlinear vibrations, mechanics of composite structures, buckling and post-buckling of elastic structures, vibration energy harvesting and nanoscale mechanics. Prior to joining AUS in Spring 2017, Dr. Emam taught mechanical engineering courses at Zagazig University, Egypt; UAE University, UAE; and Virginia Tech, USA, from 2003 to 2016. Dr. Emam is a reviewer for many international journals in his areas of expertise.

Selected Publications:

Samir A. Emam, “Snapthrough and free vibration of bistable composite laminates using a simplified Rayleigh-Ritz model”, *Composite Structures*, Vol. 206, pp 403-414, 15 December 2018

Meghashyam Panyam, Mohammed F. Daqaq and Samir A. Emam, “Exploiting the subharmonic parametric resonances of a buckled beam for vibratory energy harvesting”, *Meccanica*, Vol. 53, No. 14, pp 3545-3564, November 2018

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Ali H. Nayfeh, Samir. A. Emam, Sergio Preidikman, and Dean T. Mook, An exact solution for the natural frequencies of flexible beams undergoing overall motions, *Journal of Vibration and Control*, 9, 1221-1229, 2003.

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