



Professor Yang Xiang

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Deputy Dean

School of Computing, Engineering & Mathematics

Western Sydney University

Biography:

Yang Xiang joined UWS in 1996 after undertaking his PhD study and holding a postdoctoral position at The University of Queensland. His research expertise is in computational mechanics and engineering materials. He has published 1 book and over 140 refereed papers in journals and held two ARC DP grants and two ARC LIEF grants. His journal publications have attracted over 2500 ISI citations and he obtained an ISI H-Index of 27. He is currently the Deputy Dean of School of Computing, Engineering and Mathematics. He has held many administrative and governance positions including Senior Associate Head of School, Acting Chair of UWS Research Studies Committee, Chair of School Research Committee, member of UWS Academic Senate etc. He is currently the Chair of the Stability Committee of ASCE Engineering Mechanics Institute, an Associate Editor for International Journal of Dynamics and Control and an editorial board member for International Journal of Structural Stability and Dynamics and The Journal of Strain Analysis for Engineering Design.

Education:

PhD University of Queensland

MEng Chongqing Institute of Architecture & Engineering

BEng Chongqing Institute of Architecture & Engineering

Research Interests:

Composite Structures, Computational Mechanics, Engineering Materials, Nanocomposites, Structural Engineering

Selected Publications:

Lin, F., Xiang, Y. and Shen, H. (2015), 'Buckling of graphene embedded in polymer matrix under compression', *International Journal of Structural Stability and Dynamics*, vol 15, no 7 .

Shen, H. and Xiang, Y. (2015), 'Thermal postbuckling of nanotube-reinforced composite cylindrical panels resting on elastic foundations', *Composite Structures*, vol 123 , pp 383 - 392.

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Lin, F. and Xiang, Y. (2014), 'Vibration analysis of carbon nanotube reinforced composite plates', *Applied Mechanics and Materials*, vol 553 , pp 681 - 686.

Lin, F. and Xiang, Y. (2014), 'Numerical analysis on nonlinear free vibration of carbon nanotube reinforced composite beams', *International Journal of Structural Stability and Dynamics*, vol 14, no 1 .

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Zhang, Y.Y.; Wang, C.M.; Xiang, Y. Bending behavior of double-walled carbon nanotubes with sp^3 interwall bonds. *J. Appl. Phys.* 2011, 109, 083516.

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Wang, Q.; Liew, K.M.; He, X.Q.; Xiang, Y. Local buckling of carbon nanotubes under bending. *Appl. Phys. Lett.* 2007, 73, 093128.

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Y. Xiang and C. M. Wang, "Exact Buckling and Vibration Solutions for Stepped Rectangular Plates", *Journal of Sound and Vibration*, Vol. 250, No. 3, February 2002, pp. 503-517,

Y. Xiang, C.M. Wang, C.W. Lim and S. Kitipornchai, "Buckling of intermediate ring supported cylindrical shells under axial compression", *Thin-Walled Structures*, Vol. 43, No. 3, March 2005, pp. 427-443

Y. Xiang, Y. F. Ma, S. Kitipornchai, C. W. Lim and C. W. H. Lau, "Exact solutions for vibration of cylindrical shells with intermediate ring supports", *International Journal of Mechanical Sciences*, Vol. 44, No. 9, September 2002, pp. 1907-1924

K.M. Liew, C.M. Wang, Y. Xiang, S. Kitipornchai, *Vibration of Mindlin plates* (Google eBook), Elsevier, 1998, 202 pages

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