



**Professor Shih-Yao Kuo**

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**Selected Publications:**

Shiau, L.C. and Kuo, S.Y. (2004), “Thermal buckling of composite sandwich plates”, *Mech. Based Design Struct. Machines*, 32(1), 57-72.

L. C. Shiau and S. Y. Kuo, “Thermal postbuckling behavior of composite sandwich plates”, *J. Eng. Mech. ASCE* 130:10 (2004), 1160–1167.

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Shih-Yao Kuo, Le-Chung Shiau and Ke-Han Chen, “Buckling analysis of shape memory alloy reinforced composite laminates”, *Composite Structures*, Vol. 90, No.2, September 2009, pp. 188-195

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L.-C. Shiau, S.-Y. Kuo and S.-Y. Chang, Free vibration of buckled SMA reinforced composite laminates, *Compos. Struct.* 93 (11) (2011) 2678–2684.

S.-Y. Kuo, L.-C. Shiau, and C.-H. Lai, “Flutter of buckled shape memory alloy reinforced laminates,” *Smart Materials and Structures*, vol. 21, no. 3, Article ID 035020, 2012.

Shih-Yao Kuo, L.-C. Shiau and Y.-F. Tsai, “Flutter of delaminated composite plates”, *Journal of Aeronautics, Astronautics and Aviation, Series A*, Vol. 44, No. 3, pp 149-158, September 2012

Shiau, L.C., Kuo, S.Y. and Liu, Y.P. (2012), “Aerothermoelastic analysis of composite laminated plates”, *Compos. Struct.*, 94, 1982-1990.

Shih-Yao Kuo, “Aerothermoelastic analysis of composite laminates with variable fiber spacing”, *Computational Material Science*, Vol. 91, pp 83-90, August 2014

Shih-Yao Kuo, Le-Chung Shiau, Jing-Wei Chuang and Chien-Chin Cheng, “The relationship of buckle pattern change and vibration mode shifting: Thermal postbuckling and vibration of composite laminates”, *Journal of Aeronautics, Astronautics and Aviation*, Vol. 48, No. 1, pp 65-74, 2016

Shih-Yao Kuo, “Flutter of thermally buckled angle-ply laminates with variable fiber spacing”, *Composites Part B Engineering*, Vol. 95, 2016

Shih-Yao Kuo, “Vibration of thermally post-buckled hybrid laminates with two non-uniformly distributed fibers”, *Thin-Walled Structures*, Vol. 114, pp 70-79, May 2017

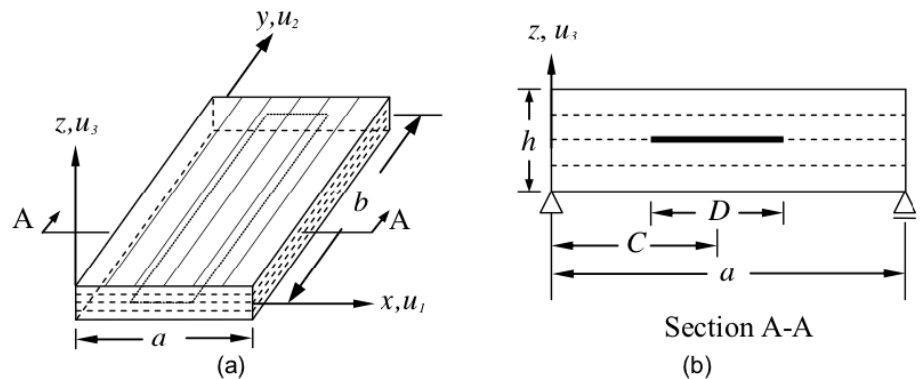


Figure 1 (a) Geometry of a delaminated laminate. (b) Geometry of section A-A.

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Shih-Yao Kuo, "Free vibration of fully functionally graded carbon nanotube reinforced graphite/epoxy laminates, *Materials Research Express*, Vol. 5, No. 3, March 2018