



Professor Gangadharan Raju

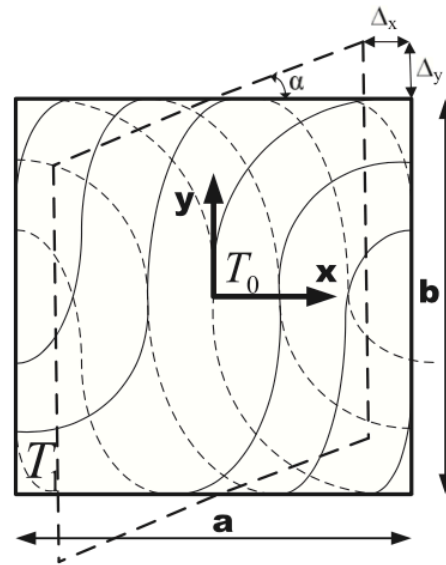


Fig. 10. Square VAT plate subjected to positive in-plane shear displacement.

From: Gangadharan Raju, Zhangming Wu and Paul M. Weaver, "Buckling and postbuckling of variable angle tow (VAT) composite plates under in-plane shear loading", *International Journal of Solids and Structures*, Vol. 58, pp 270-287, April 2015

See:

https://www.researchgate.net/profile/Gangadharan_Raju

<https://scholar.google.co.in/citations?user=JbMFXzwAAAAJ&hl=en>

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Selected Publications:

Zhangming Wu, Paul M. Weaver, Gangadharan Raju and Byung Chul Kim, "Buckling analysis and optimisation of variable angle tow composite plates", *Thin-Walled Structures*, Vol. 60, pp 163-172, November 2012

Z. Wu, G. Raju, P.M. Weaver, "A comparison of variational, differential quadrature and approximate closed form solution methods for buckling of highly flexurally anisotropic laminates", *J Eng Mech*, 139 (2012), pp. 1073-1083

Gangadharan Raju, Zhangming Wu, Byung Chul Kim and Paul M. Weaver, "Prebuckling and buckling analysis of variable angle tow plates with general boundary conditions", *Composite Structures*, Vol. 94, No. 9, pp 2961-2970, September 2012

Wu, Z., Raju, G., Weaver P.M., 2012. Buckling of VAT plates using energy methods. In: 53rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference.

Z. Wu, P.M. Weaver, G. Raju, "Postbuckling optimisation of variable angle tow composite plates", *Compos Struct*, 103 (2013), pp. 34-42

G. Raju, Z. Wu, P.M. Weaver, "Postbuckling analysis of variable angle tow plates using differential quadrature method", *Compos Struct*, 106 (2013), pp. 74-84

R.M.J. Groh, P.M. Weaver, S. White, G. Raju, Z. Wu, "A 2D equivalent single-layer formulation for the effect of transverse shear on laminated plates with curvilinear fibres", *Compos Struct*, 100 (2013), pp. 464-478

Zhangming Wu, Gangadharan Raju and Paul M. Weaver, "Postbuckling analysis of variable angle tow composite plates", *International Journal of Solids and Structures*, Vol. 50, No. 10, pp 1770-1780, May 2013

S.C. White, G. Raju and P.M. Weaver, "Initial post-buckling of variable-stiffness curved panels", *Journal of the Mechanics and Physics of Solids*, Vol. 71, pp 132 – 155, 2014

Z. Wu, G. Raju, S. White, P.M. Weaver, Optimal design of postbuckling behaviour of laminated composite plates using lamination parameters, 55th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, AIAA SciTech (2014)

Gangadharan Raju, Zhangming Wu and Paul M. Weaver, "Buckling and postbuckling of variable angle tow composite plates under in-plane shear loading", *International Journal of Solids and Structures*, Vol. 58, pp 270-287, April 2015

Zhangming Wu, Gangadharan Raju, and Paul M. Weaver. "Framework for the Buckling Optimization of Variable-Angle Tow Composite Plates", *AIAA Journal*, Vol. 53, No. 12 (2015), pp. 3788-3804.

Surya Samukham, Gangadharan Raju and C.P. Vyasrayani, "Parametric instabilities of variable angle tow composite laminate under axial compression", *Composite Structures*, Vol. 166, pp 229-238, April 2017

Zhangming Wu, Gangadharan Raju and Paul M. Weaver, "Optimization of postbuckling behaviour of variable thickness composite panels with variable angle tows: Towards "Buckle-Free" design concept", *International Journal of Solids and Structures*, Vols. 132-133, pp 66-79, February 2018

Naresh Reddy Kolanu, Gangadharan Raju and M. Ramji, "Experimental and numerical studies on the buckling and post-buckling behavior of single blade-stiffened CFRP panels", *Composite Structures*, Vol. 196 pp 135-154, July 2018

Gangadharan Raju, Zhangming Wu, Simon White, and Paul M. Weaver. "Optimal Postbuckling Design of Variable Angle Tow Composite Plates", *AIAA Journal*, Vol. 56, No. 5 (2018), pp. 2045-2061.