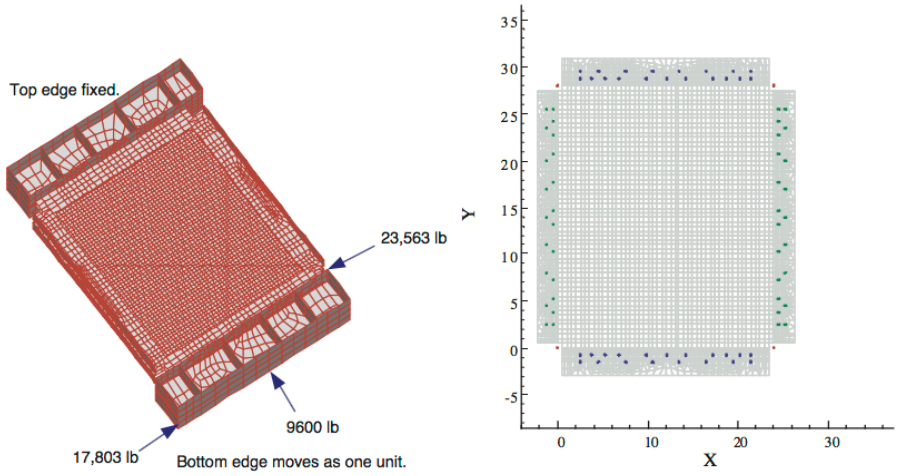
Dr. Shahriar Setoodeh



(a) 3-D STAGS model. (b) Simplified 2-D model.

Figure 4.10: Picture frame panel for combined compression and shear loading.

From: Shahriar Setoodeh, "Optimal design of variable-stiffness fiber-reinforced composites using cellular automata", PhD Dissertation, Virginia Polytechnic Institute and State University, September 2005

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S. Setoodeh, M. M. Abdalla, and Z. Gürdal. Simultaneous topology and curvilinear fiber path design of composite layers using cellular automata. In 45th AIAA/ASME/ASCE/AHS/ASC SDM Conference, Palm Spring, California, April 18-22 2004.
S. Setoodeh, Z. Gürdal, and L. T. Watson. Design of variable-stiffness composite layers using cellular automata. Computer Methods in Applied Mechanics and Engineering, Available Online June 2005.
Shahriar Setoodeh, "Optimal design of variable-stiffness fiber-reinforced composites using cellular automata", PhD Dissertation, Virginia Polytechnic Institute and State University, September 2005

Setoodeh, S., Blom, A. W., Abdalla, M. M., and Gürdal, Z., "Generating Curvilinear Fiber Paths from Lamination Parameters Distribution," 47th AIAA/ASME/ASCE Structures, Structural Dynamics & Materials Conference, Vol. 5, AIAA, Reston, VA, May 2006, pp. 3440–3452.
Setoodeh, S., Abdalla, M. M., and Gürdal, Z., "Approximate Feasible Regions for Lamination Parameters," 11th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, Vol. 2, AIAA, Reston, VA, May 2006, pp. 814–822.
S. Setoodeh, M. M. Abdalla, and Z. Gürdal, "Design of variable–stiffness laminates using lamination parameters," Composites Part B: Engineering, vol. 37, no. 4–5, pp. 301–309, Jun. 2006.
M.M. Abdalla, S. Setoodeh, Z. Gürdal, "Design of variable stiffness composite panels for maximum fundamental frequency using lamination parameters", Compos Struct, 81 (2007), pp. 283-291
Adriana W. Blom, Shahriar Setoodeh, Jan M.A.M. Hol and Zafer Gürdal, "Design of variable-stiffness conical shells for maximum fundamental eigenfrequency", Computers & Structures, Vol. 86, No. 9, May 2008, pp. 870-878, Special Issue: Composites, doi:10.1016/j.compstruc.2007.04.020
Shahriar Setoodeh, Mostafa M. Abdalla, Samuel T. IJsselmuiden and Zafer Gürdal, "Design of variable-stiffness composite panels for maximum buckling load", Composite Structures, Vol. 87, No. 1, January 2009, pp. 109-117