



Professor Michelle S. Hoo Fatt

See:

http://works.bepress.com/michelle_hoofatt/

Mechanical Engineering
University of Akron, Akron, Ohio

Biography:

Michelle S. Hoo Fatt obtained her PhD in Structural Mechanics from the Department of Ocean Engineering at MIT in 1992, her MS in Ocean Engineering at MIT in 1990, and her BS in Mechanical Engineering at MIT in 1987. She was Lecturer/Post-doctoral Fellow in the Naval Architecture and Offshore Engineering Department at the University of California, Berkeley in 1992-93 and a Post-doctoral Associate/Lecturer in Department of Ocean Engineering at MIT in 1993-95. She is currently a Professor in Mechanical Engineering and teaches courses in structural mechanics, dynamics and vibrations while conducting research in blast and impact mechanics, composite structures, and elastomer mechanics.

Selected Publications:

Local Facesheet Pulse Buckling in a Curved, Composite Sandwich Panel (with Yifei Gao), *Composite Structures* (2013)

Foam-Core, Curved Composite Sandwich Panels under Blast (with Yifei Gao and Dushyanth Sirivolu), *Journal of Sandwich Structures and Materials* (2013)

Blast Resistance and Energy Absorption of Foam-Core Cylindrical Sandwich Shells under External Blast (with Harika Surabhi), *Composite Structures* (2012)

Pressure Pulse Response of Composite Sandwich Panels with Plastic Core Damping (with Pradeep Chapagain), *Journal of Sandwich Structures and Materials* (2012)

Dynamic Pulse Buckling of Single Curvature Composite Shells under External Blast (with Yifei Gao), Thin-Walled Structures (2012)

Dynamic Pulse Buckling of Composite Shells Subjected to External Blast (with Sunil G. Pothula), Composite Structures (2010)

A Wave Propagation Model for the High Velocity Impact Response of a Composite Sandwich Panel (with Dushyanth Sirivolu), International Journal of Impact Engineering (2010)

Analytical Modeling of Composite Sandwich Panels under Blast Loads (with Leelaprasad Palla), Journal of Sandwich Structures and Materials (2009)

Jianghong Xue and Michelle S. Hoo Fatt, "Symmetric and anti-symmetric buckle propagation modes in subsea corroded pipelines", Marine Structures, Vol. 18, No. 1, January 2005, pp. 43-61

J. Xue and M. S. Hoo Fatt, "Buckling of a non-uniform, long cylindrical shell subjected to external hydrostatic pressure", Engineering Structures, Vol. 24, No. 8, August 2002, pp. 1027-1034

Michelle S. Hoo Fatt and Jianghong Xue, "Propagating buckles in corroded pipelines", Marine Structures, Vol. 14, No. 6, November-December 2001, pp. 571-592

Jianghong Xue and Michelle S. Hoo Fatt, "Buckle propagation in pipelines with non-uniform thickness", Ocean Engineering, Vol. 28, No. 10, October 2001, pp. 1383-13