



**Professor Ahmet Sinan Oktem**

See:

[https://www.researchgate.net/profile/Ahmet\\_Oktem](https://www.researchgate.net/profile/Ahmet_Oktem)

Dept. of Mechanical Engineering, Gebze Technical University, Gebze, Turkey

### Selected Publications:

Oktem, A.S., Chaudhuri, R.A.: Levy type analysis of cross-ply plates based on higher-order theory. *Compos. Struct.* 78, 243–253 (2007)

Ahmet Sinan Oktem and Reaz A. Chaudhuri, "Levy type Fourier analysis of thick cross-ply doubly-curved panels", *Composite Structures*, Vol. 80, No. 4, pp 475-488, October 2007

Ahmet Sinan Oktem and Reaz A. Chaudhuri, "Effect of inplane boundary constraints on the response of thick general (Unsymmetric) cross-ply plates", *Composite Structures*, Vol. 83, No. 1, pp 1-12, March 2008

Ahmet Sinan Oktem and Reaz A. Chaudhuri, "Sensitivity of the response of thick cross-ply doubly curved panels to edge clamping", *Composite Structures*, Vol. 87, No. 4, pp 293-306, February 2009

Oktem, A.S. and Chaudhuri, R.A. (2009), "Higher-order theory based boundary-discontinuous Fourier analysis of simply supported thick cross-ply doubly curved panels", *Compos. Struct.*, 89(3), 448-458.

Mantari, J.L., Oktem, A.S., Soares, C.G.: Static and dynamic analysis of laminated composite and sandwich plates and shells by using a new higher-order shear deformation theory. *Compos. Struct.* 94, 37–49 (2011)

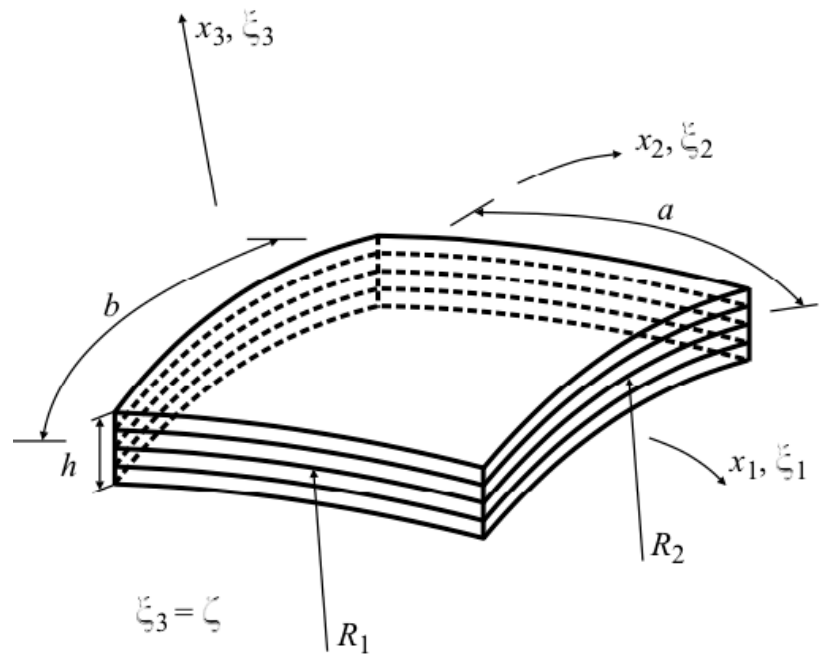
Oktem, A.S. and Soares, C.G. (2011), "Boundary discontinuous Fourier solution for plates and doubly curved panels using a higher order theory", *Compos.: Part B*, 42(4), 842-850.

Oktem, A.S. and Soares, C.G. (2011), "Higher order theory based Fourier analysis of cross-ply plates and doubly curved panels". *J. Compos. Mater.*, 46(21), 2675-2694.

Mantari, J.L., Oktem, A.S. and Soares, C.G. (2012), "A new trigonometric shear deformation theory for isotropic, laminated composite and sandwich plates", *Int. J. Solids Struct.*, 49(1), 43-53.

Mantari, J.L., Oktem, A.S. and Soares, C.G. (2012), "A new trigonometric layerwise shear deformation theory for the finite element analysis of composite and sandwich plates", *Comput. Struct.*, 94-95, 45-53.

A. S. Oktem and C. G. Soares, "Analysis of the static response of cross-ply simply supported plates and shells based on a higher order theory," *Mech. Compos. Mater.*, 48, No. 1, 65-76 (2012).



From: A. S. Oktem and C. G. Soares, "Analysis of the static response of cross-ply simply supported plates and shells based on a higher order theory," *Mech. Compos. Mater.*, 48, No. 1, 65-76 (2012).

Oktem, A.S., Mantari, J.L., Soares, C.G.: Static response of functionally graded plates and doubly-curved shells based on a higher order shear deformation theory. *Eur. J. Mech. A Solids* 36, 163–172 (2012)

Mantari, J.L., Oktem, A.S. and Soares, C.G. (2012), "Bending response of functionally graded plates by using a new higher order shear deformation theory", *Compos. Struct.*, 94(2), 714-723.

Mantari JL, Oktem AS, Soares CG. A new higher order shear deformation theory for sandwich and composite laminated plates. *Compos Part B Eng* 2012;43(3):1489–1499.

Ahmet Sinan Oktem, C Guedes Soares, "Higher order theory based Fourier analysis of cross-ply plates and doubly curved panels", *Journal of Composite Materials*, Vol. 46, No. 21, pp 2675-2694, October 2012

Mantari, J.L., Oktem, A.S. and Soares, C.G. (2012), "Bending and free vibration analysis of isotropic and multilayered plates and shells by using a new accurate higher-order shear deformation theory", *Composites: Part B*, 43(8), 3348-3360

Oktem A.S., Alankaya, V. and Soares, C.G. (2013), "Boundary discontinuous fourier analysis of simply supported cross-ply plates", *Appl. Math. Model.*, 37(3), 1378-1389.

Reaz A. Chaudhuri, A. Sinan Oktem, and C. Guedes Soares. "Internally Pressurized Thin Unsymmetric Cross-Ply Cantilever Cylindrical Shells", *AIAA Journal*, Vol. 51, No. 10 (2013), pp. 2523-2526.

Reaz A. Chaudhuri, A. Sinan Oktem and C. Guedes Soares, "Beam-column and tie-bar effects in internally pressurized thin arbitrarily laminated cantilever cylindrical shells", *Journal of Engineering Mechanics*, March 2015

Chaudhuri, R.A., Oktem, A.S. and Soares, C.G. (2015), "Levy type boundary fourier analysis of thick clamped hyperbolic paraboloidal cross ply panels", *AIAA J.*, 53(1), 140-149.

Reaz A. Chaudhuri, Ahmet Sinan Oktem, and C. Guedes Soares. "Levy-Type Boundary Fourier Analysis of Thick Cross-Ply Panels with Negative Gaussian Curvature", *AIAA Journal*, Vol. 53, No. 9 (2015), pp. 2492-2503

Reaz A. Chaudhuri and A. Sinan Oktem. "Analysis of Simply-Supported Saddle-Shaped Symmetric Cross-Ply Panels with No Surface-Parallel Boundary Constraints", *AIAA Journal*, Vol. 54, No. 2 (2016), pp. 782-788.

Alankaya, V. and Oktem, A.S. (2016), "Static analysis of laminated and sandwich composite doubly-curved shallow shells", *Steel Compos. Struct., Int. J.*, 20(5), 1043-1066.

Reaz A. Chaudhuri and A. Sinan Oktem. "Simply-Supported Saddle-Shaped Thick Symmetric Cross-Ply Panels: Full Surface-Parallel Boundary Constraints", *AIAA Journal*, Vol. 54, No. 7 (2016), pp. 2194-2199.

Ilke Aigul, Hasan Kurtaran and Ahmet Sinan Oktem, "Static analysis of arbitrarily laminated composite cantilever panels with Chebyshev collocation method", 9th Ankara International Aerospace Conference, METU, Ankara, Turkey, 20-22 September 2017, Paper No. AIAC-2017-1080

A.S. Oktem, S. Adali, Buckling of shear deformable polymer/clay nanocomposite columns with uncertain material properties by multiscale modeling, *Compos. B Eng.*, 145 (2018), pp. 226-231

Reaz A. Chaudhuri and A. Sinan Oktem, "Flattening effect of negative Gaussian curvature on simply supported thick asymmetric cross-ply panels in the absence of surface-parallel edge restraints", *Journal of Aerospace Engineering*, November 2020