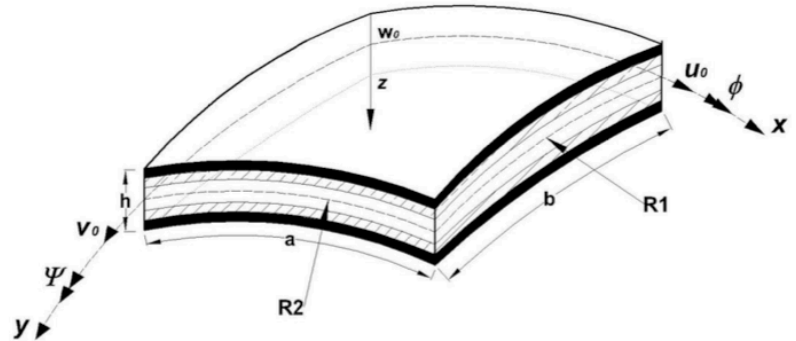




**Professor Atteshamuddin S. Sayyad**



**Fig. 1.** Doubly-curved shell geometry and coordinate system.

From: Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Static and free vibration analysis of laminated composite and sandwich spherical shells using a generalized higher-order shell theory", Composite Structures, Vol. 219, pp 129-146, 1 July 2019

See:

- <https://scholar.google.com/citations?user=DCsBaTUAAAJ&hl=en>
- [https://www.researchgate.net/profile/Atteshamuddin\\_Sayyad2](https://www.researchgate.net/profile/Atteshamuddin_Sayyad2)
- <http://www.assayyad.com/>
- <https://studylib.net/doc/7731148/resume-dr.-atteshamuddin.-s.-sayyad-ph.d.--structural>

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### Summary:

Atteshamuddin S. Sayyad currently works at the Department of Civil Engineering, SRES College of Engineering, Kopergaon. The thrust research areas of Atteshamuddin are bending, buckling and free vibration analysis of beams, plates and shells made of advanced composite materials using higher order theories. Atteshamuddin does research in Civil Engineering. During his years teaching service, he taught various subjects at undergraduate (Civil) and post graduate (Structures) levels such as Engineering Mechanics, Strength of Material, Theory of Structures, Structural Analysis, Matrix Methods of Analysis, Finite Element Method and Theory of Plates and Shells. He received his bachelor degree in Civil Engineering (2003) from Pune University, Maharashtra, India. He has received his M.E. (2006) and Ph.D (2011) in Structural Engineering from Government Engineering College Aurangabad, Dr. Babasaheb Ambedkar Marathwada University, Maharashtra, India.

### Selected Publications:

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Effects of nonlinear hygothermomechanical loading on bending of FGM rectangular plates resting on two-parameter elastic foundation using four-unknown plate theory", Journal of Thermal Stresses, Vol. 42, No. 2, pp 213-232, 2019,

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Static and free vibration analysis of laminated composite and sandwich spherical shells using a generalized higher-order shell theory", *Composite Structures*, Vol. 219, pp 129-146, 1 July 2019

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "An inverse hyperbolic theory for FG beams resting on Winkler-Pasternak elastic foundation", *Advances in Aircraft and Spacecraft Science*, Vol. 5, No. 6, pp 671-689, 2018

Sayyad, A. S. and Ghugal, Y. M. [2018] "Analytical solutions for bending, buckling, and vibration analyses of exponential functionally graded higher order beams," *Asian Journal of Civil Engineering* 19, 607–623.

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Bending of shear deformable plates resting on Winkler foundations according to trigonometric plate theory", *Journal of Applied and Computational Mechanics*, Vol. 4, No. 3, pp 187-201, 2018

Sayyad, A. S. and Ghugal, Y. M. [2018] "Modeling and analysis of functionally graded sandwich beams: A review," *Mechanics of Advanced Materials and Structures* 5, 1–20.

Nitin Shankarrao Naik and Atteshamuddin Shamshuddin Sayyad, "2D analysis of laminated composite and sandwich plates using a new fifth-order plate theory", *Latin American Journal of Solids and Structures*, Vol. 15, No. 9, August 2018

Nitin Shankarrao Naik and Atteshamuddin S. Sayyad, "1D analysis of laminated composite and sandwich plates using a new fifth-order plate theory", *Latin American Journal of Solids and Structures*, Vol. 15, No. 1, (pp in journal is not given), 2018

Rohit D. Nikam and Atteshamuddin S. Sayyad, "Free vibration of functionally graded nanobeams using a new nonlocal trigonometric shear deformation theory", *International Conference on Composite Materials and Structures – ICCMS 2017*, Hyderabad, 27029 December 2917

Shantaram Manohar Ghumare and Atteshamuddin S Sayyad, "A new fifth-order shear and normal deformation theory for static bending and elastic buckling of P-FGM beams", *Latin American Journal of Solids and Structures*, Vol. 14, No. 11, pp 1893-1911, 2017

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "On the free vibration of angle-ply laminated composite and soft core sandwich plates", *Journal of Sandwich Structures & Materials*, Vol. 19, No. 6, pp 679-711, November 2017

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Bending, buckling and free vibration of laminated composite and sandwich beams: A critical review of literature", *Composite Structures*, Vol. 171, pp 486-504, July 2017

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "A unified shear deformation theory for the bending of isotropic functionally graded, laminated and sandwich beams and plates", *Int. J. Appl. Mechanics* 09(1), 1750007 (2017) [36 pages], January 2017

A. S. Sayyad, Y. M. Ghugal, and B. M. Shinde, "Thermal stress analysis of laminated composite plates using exponential shear deformation theory," *Int. J. Automot. Compos.*, vol. 2, no. 1, pp. 23–40, 2016

Atteshamuddin S. Sayyad and Yuwaraj M. Ghugal, "Cylindrical bending of multilayered composite laminates and sandwiches", *Advances in Aircraft and Spacecraft Science*, Vol. 3, No. 2, pp 113-148, 2016

A.S. Sayyad, B.M. Shinde, Y.M. Ghugal, "Bending, Vibration and Buckling of Laminated Composite Plates Using a Simple Four Variable Plate Theory", *Latin Am J Solid Struct*, 13 (2016), pp. 516-535

A. S. Sayyad, Y. M. Ghugal, and B. A. Mhaske, "A four-variable plate theory for thermoelastic bending analysis of laminated composite plates," *J. Therm. Stresses*, vol. 38, no. 8, pp. 904–925, 2015

A.S. Sayyad and Y.M. Ghugal. A nth-order shear deformation theory for composite laminates in cylindrical bending. *Curved and Layered Structures*, 2(1):290-300, 2015.

Sayyad, A. S., Ghugal, Y. M. and Naik, N. S. [2015] "Bending analysis of laminated composite and sandwich beams according to refined trigonometric beam theory," *Curved and Layered Structures* 2, 279–289.

A.S. Sayyad, Y.M. Ghugal, On the free vibration analysis of laminated composite and sandwich plates: a review of recent literature with some numerical results, *Compos. Struct.* 129 (2015) 177–201.

Sayyad, A. S. and Ghugal, Y. M. [2015] “ Static flexure of soft core sandwich beams using trigonometric shear deformation theory,” *Mechanics of Advanced Composite Structures* 2, 45–53.

Sayyad, A. S., Ghugal, Y. M. and Shinde, P. N. [2015] “ Stress analysis of laminated composite and soft core sandwich beams using a simple higher order shear deformation theory,” *Journal of Serbian Society of Computational Mechanics* 9(1), 15–35.

A. S. Sayyad, and Y. M. Ghugal, On the Buckling of Isotropic, Transversely Isotropic and Laminated Composite Rectangular Plates, *Int. J. Struct. Stab. Dyn.*, vol. 14, no. 07, pp. 1450020-1–1450020-32, 2014.

A.S. Sayyad, Y.M. Ghugal and R.R. Borker, “Flexural analysis of fibrous composite beams under various mechanical loadings using refined shear deformation theories”, *Composites: Mechanics, Computations, Applications. An International Journal*, Vol. 5, No. 1, pp 1-19, 2014

Sayyad, A.S. and Ghugal, Y.M. (2014), "Flexure of cross-ply laminated plates using equivalent single layer trigonometric shear deformation theory", *Struct. Eng. Mech.*, 51(5), 867-891.

Sayyad, A.S., Ghugal, Y.M.: Buckling and free vibration analysis of orthotropic plates by using exponential shear deformation theory. *Latin Am. J. Solids Struct.* 11, 1298–1314 (2014)

Sayyad A. S., “Flexure of thick orthotropic plates by exponential shear deformation theory,” *Latin American Journal of Solids and Structures*, 2013, 10, pp. 473-490.

Sayyad A. S. and Ghugal Y. M., “Effect of Local Stress Concentration on Laminated Plates” *Journal of Mechanics*, 2013, 29, pp. 241-252.

Sayyad A. S. and Ghugal Y. M., “Flexure of Thick Beams Using New Hyperbolic Shear Deformation Theory”, *International Journal of Mechanics*, 2011, 5(3) pp. 113-122.

Sayyad A. S., “Comparison of Various Beam Theories for the Bending and Free Vibration Analysis of Thick Beams” *Applied and Computational Mechanics*, 2011, 5, pp. 217-230.

Sayyad A. S. and Ghugal Y. M., “Bending and free vibration of thick isotropic plates by using exponential shear deformation theory,” *Applied and Computational Mechanics*, 2012, 6, pp.65-82

Sayyad A. S., “Static Flexure And Free Vibration Analysis of Thick Isotropic Beams Using Different Higher Order Shear Deformation Theories,” *International Journal of Applied Mathematics and Mechanics*, 2012, 8(14), 71-87.

Sayyad A. S. and Ghugal Y. M., “Buckling analysis of thick isotropic plates by using exponential shear deformation theory,” *Applied and Computational Mechanics*, 2012, 6(2), 185–196.

Sayyad A. S., “Comparison of Various Shear Deformation Theories for the Free Vibration of Thick Isotropic Beams” *International Journal of Civil and Structural Engineering*, 2011, 2(1), pp. 85-97.

Ghugal Y. M. and Sayyad A. S., “A Static Flexure of Thick Isotropic Plates Using Trigonometric Shear Deformation Theory”, *Journal of Solid Mechanics*, 2010, 2(1), pp. 79-90.

Ghugal Y. M. and Sayyad A. S., “Free Vibration of Thick Isotropic Plates Using Trigonometric Shear Deformation Theory”, *Journal of Solid Mechanics*, 2011, 3(2), pp. 172-182.

Ghugal Y. M. and Sayyad A. S., “Cylindrical Bending of Thick Orthotropic Plates Using Trigonometric Shear Deformation Theory”, *International Journal of Applied Mathematics and Mechanics*, 2011, 7(5), pp. 98-116.

Ghugal Y. M. and Sayyad A. S., “Free Vibration of Thick Orthotropic Plates Using Trigonometric Shear Deformation Theory”, *Latin American Journal of Solids and Structures*, 2011, 8, pp. 229-243.

Ghugal Y. M. and Sayyad A. S., “Static Flexure of Thick Orthotropic Plates Using Trigonometric Shear Deformation Theory”, *Journal of Structural Engineering*, 2013, 39(5), pp. 512-521.

Ghugal Y. M. and Sayyad A. S., “Static Flexure of Thick Laminated Plates using Trigonometric Shear Deformation Theory”, *International Journal of Applied Mechanics*, 2013, 5(1) doi: 10.1142/S1758825113500038.

Sayyad A. S. and Ghugal Y. M., "Effect of Transverse Shear and Transverse Normal Strain on the Bending analysis of Cross-Ply Laminated Beams", International Journal of Applied Mathematics and Mechanics, 2011, 7(12), 85-118.

S. M.Ghumare, A. S. Sayyad, R.R. Borkar, "Cylindrical bending of composite plates using refined plate theory," International Journal of Advanced Technology in Civil Engineering, 2013,2(1),100-103.

R.R. Borkar, A. S. Sayyad, S. M.Ghumare, "Assessment of refined beam theories for the bending analysis of composite beam," International Journal of Advanced Technology in Civil Engineering, 2013, 2(1), 80-83

Sayyad A. S. and Ghugal Y. M., "Comparative Study of Refined Beam Theories for Static Flexure of Deep Beams",

Proceeding of Seventh Structural Engineering Convention (SEC-2010), 2010, 8-10 December Annamalai university, Annamalai nagar, T.N., pp. 202-210.

Sayyad A. S. and Ghugal Y. M. "Static Flexure of Thick Isotropic Plates Using Trigonometric Shear Deformation Theory", Proceeding of International conference on Innovative world of Structural Engineering (ICIWSE-2010), 2010, 25-27 December Government College of Engineering, Aurangabad, M.S., pp 738-746.

Sayyad A. S. and Ghugal Y. M., "Static Flexure of Thick Isotropic Beam Using New Hyperbolic Shear Deformation Theory", Proceeding of International conference on Sunrise Technologies,(i-COST-2011), 2011, 13-15 January, SSVPS College of Engineering, Dhule, M.S., Paper No 4.25.