



## **Professor Jeng-Shian Chang**

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<http://65.54.113.26/Author/21887826/jeng-shian-chang>

Institute of Applied Mechanics  
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### **Education:**

PhD (Mechanica Engineering), Syracuse University, 1984

MS (Computer Science), Syracuse University, 1983

MS (Mechanica Engineering), Syracuse University, 1981

BE (Mechanica Engineering), National Taiwan University, 1975

### **Research Interests:**

Mechanics of composite materials, Vibration and Stability of Structures, Nonlinear Vibration, Thermoelasticity, Micromechanics, Stress Analysis of Electronic Packaging, Finite Element Method and Plates and Shells, Piezoelectricity, Mechanics of Nano-materials

### **Selected Publications:**

Jeng-Shian Chang and Feng-Jen Shiao, "Thermal Buckling Analysis Of Isotropic And Composite Plates With A Hole", Journal of Thermal Stresses, Vol. 13, No. 3, 1990, pp. 315 – 332, doi: 1080/01495739008927040

Jeng-Shian Chang, "FEM analysis of buckling and thermal buckling of antisymmetric angle-ply laminates according to transverse shear and normal deformable high order displacement theory", Computers & Structures, Vol. 37, No. 6, 1990, pp. 925-946, doi:10.1016/0045-7949(90)90006-N

Jeng-Shian Chang and Shyue-Ywh Leu, "Thermal buckling analysis of antisymmetric angle-ply laminates based on a higher-order displacement field", *Composites Science and Technology*, Vol. 41, No. 2, 1991, pp. 109-128, doi:10.1016/0266-3538(91)90023-I

Chang Jeng-Shian and Chiu Wei-Chong, "Thermal buckling analysis of antisymmetric laminated cylindrical shell panels", *International Journal of Solids and Structures*, Vol. 27, No. 10, 1991, pp. 1295-1309, doi:10.1016/0020-7683(91)90164-B

Jeng-Shian Chang, "Overall buckling and postbuckling behavior of beam-like sandwich plates", *Composites Science and Technology*, Vol. 45, No. 1, 1992, pp. 55-63, doi:10.1016/0266-3538(92)90122-J

Jeng-Shian Chang and Chen-Hong Lin, "Buckling and free vibration of cross-ply laminated circular cylindrical shells subjected to axial thrust and lateral pressure loading according to a higher order displacement field", *Thin-Walled Structures*, Vol. 13, No. 3, 1992, pp.177-196, doi:10.1016/0263-8231(92)90040-4

Jeng-Shian Chang and Jaw-Wang Shyong, "Thermally induced vibration of laminated circular cylindrical shell panels", *Composites Science and Technology*, Vol. 51, No. 3, 1994, pp. 419-427, doi:10.1016/0266-3538(94)90110-4

Jeng-Shian Chang and Wen-Jiann Chiou, "Natural frequencies and critical velocities of fixed-fixed laminated circular cylindrical shells conveying fluids", *Computers & Structures*, Vol. 57, No. 5, December 1995, pp. 929-939, doi:10.1016/0045-7949(94)00352-4