



Professor Yehuda Stavsky (1931 – 2007)

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Biographical Data:

b. Israel 1931. B.Sc. (Suma Cum Laude) Technion, 1954. M.Sc. Technion, 1956. Sc.D. M.I.T. 1959. M.I.T. 1959-1961. Washington University 1969-1970. Tel Aviv University 1970. UCLA 1980-81. At Technion since 1954. Professor since 1970. Gerard Swope Professor of Mechanics since 1976.

Main Interests:

Anisotropic elasticity, equilibrium, vibrations, buckling, dynamic stability and thermal effects in sandwich and composite plates and shells. Refined theories of layered structures. Coupled thermo-anisotropic-elasticity. Fluid-structure interaction. Piezoelectric composite structures.

Selected Publications:

“Bending and stretching of certain types of heterogeneous aeolotropic elastic plates”, J. Appl. Mech., 28, 3, Sept. 1961, pp. 402-408 (with E. Reissner).

“Elastic wave propagation in heterogeneous plates”, *Int. J. Solids and Structures*, 2, 4, Oct. 1966, pp. 665-684 (with P.C. Young and C.H. Norris).

“On vibrations of heterogeneous orthotropic cylindrical shells”, *J. Sound Vibration*, 15, 3, April-March 1971, pp. 105-126 (with R. Loewy).

“Thermoelastic stability of laminated orthotropic circular plates”, *Acta Mechanica*, 22, 1- 2, 1975, pp. 31-51.

“Stability and vibrations of compressed aeolotropic composite cylindrical shells”, *J. Appl. Mechanics*, 49, 4, Dec. 1982, pp. 843-848 (with J.B. Greenberg).

“Buckling of edge damaged cylindrical composite shells”, *J. Appl. Mechanics*, 56, 1, March 1989, pp. 121-126 (with J.B. Greenberg and M. Sabag).

“Theory of bending and stretching of orthotropic sandwich cylindrical shells with dissimilar facings”, *Composites Engineering*, 4, 6, 1994, pp. 591-604 (with J.B. Greenberg and A. Soloveychick).

“Coupled thermoelastic theory for dynamic stability of composite plates”, *J. Thermal Stresses*, 18, 3, 1995, pp. 335-357. (with S. Markus and J.B. Greenberg).

“Refined theory for non-linear buckling of heated composite shallow spherical shells”, *Computers and Structures*, 55, 6, 1995, pp. 1007-1014 (with G. Krizhevsky).

“Vibrations and buckling of composite orthotropic cylindrical shells with nonuniform axial loads”, *Composites*, Pt. B 29B, 1998, pp. 695-703 (with J.B. Greenberg).

“Refined dynamic stability theory of laminated isotropic circular plates”, *J. Applied Mechanics*, 65, 2, June 1998, pp. 334-340 (with G. Krizhevsky).