



**Professor Judah Ari-Gur**

From: Ari-Gur, J., Singer, J. and Libai, A., "Repeated Buckling Tests of Stiffened Thin Shear Panels", Israel Journal of Technology, Vol. 20, Nos. 4-5, 1982, pp. 220-231.

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Western Michigan University, Kalamazoo, Michigan, USA

**Education:**

D.Sc., M.Sc., B.Sc., Aeronautical Engineering, Technion, Israel

**Research Interests:**

Structural Dynamics; Mechanics of Composite Materials; Blast Response of (Composite) Structures; Pulse Buckling of (Composite) Structures; Finite Element Modelling

**Graduate Courses Taught:**

**Mechanics of Composite Materials. Similarities in Structural Dynamics.** Design Optimization. Stability of Thin-Walled Structures.

**Selected Publications:**

Veldman, R.L., Ari-Gur, J. and Panaggio, M., "Lightweight Mitigating Materials for Structures Under Close-in Blast Loading", 50th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Palm springs, California, May 2009 (AIAA Paper 2009-2339).

Veldman, R.L., Ari-Gur, J. and Clum, C., "Response of Pre-Pressurized Reinforced Plates Under Blast Loading", International Journal of Impact Engineering, Vol. 35, No. 4, April 2008, pp. 240-250.

Veldman, R.L., Ari-Gur, J., Clum, C., DeYoung, A. and Folkert, J., "Effects of Pre-Pressurization on Blast Response of Clamped Aluminum Plates", International Journal of Impact Engineering, Vol. 32, No. 10, October 2006, pp. 1678-1695.

Veldman, R.L., Ari-Gur, J. and Clum, C., "Effects of Pre-pressurization on Damage of Blast-loaded Reinforced Plates", ASME IMECE05, Orlando, November 2005.

Veldman, R.L., Ari-Gur, J., Clum, C. and Folkert, J., "Effects of Pre-Pressurization on Plastic Deformation of Blast-Loaded Square Aluminum Plates", 8th International LS-DYNA Users Conference, Dearborn, Michigan, May 2004.

Veldman, R.L. and Ari-Gur, J., "Enhancing Commercial Aircraft Survivability via Active Venting", FAA Third International Aviation Security Technology Symposium, Atlantic City, New Jersey, November 2001.

Ari-Gur, J. and Simonetta, S.R., "Dynamic Pulse Buckling of Rectangular Composite Plates", Composites Part B: Engineering, Vol. 28, No. 3, 1997, pp. 301-308.

Kadandale, M. and Ari-Gur, J., "Dynamic Pulse Buckling of Viscoelastic Columns", 38th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Kissimmee, Florida, April 1997, pp. 374-381 (AIAA Paper 97-1097).

Ari-Gur, J. and Elishakoff, I., "Dynamic Instability of a Transversely Isotropic Column Subjected to a Compression Pulse", Computers and Structures, Vol. 62, No. 5, March 1997, pp. 811-815.

Kaoud, M. and Ari-Gur, J., "Vibration of Annular Circular Plate with Intermediate Ring Support", 37th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Salt Lake City, April 1996, pp. 1515-1521 (AIAA Paper 96-1481-CP).

Talla, J.R. and Ari-Gur, J., "Nonlinear Dynamic Finite Element Modeling of Hydroelastic Mounts", ANSYS TechNotes, Vol. 11, June 1993, pp. 11.4.1-11.4.15.

Ari-Gur, J. and Elishakoff, I., "Transverse Shear Effects on the Axisymmetric Pulse Buckling of Cylindrical Shells", 34th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, La Jolla, California, April 1993, pp. 1125-1132 (AIAA Paper 93-1436-CP).

Ari-Gur, J. and Elishakoff, I., "Effects of Shear Deformation and Rotary Inertia on the Pulse Buckling of Imperfect Plates", in: Recent Advances in Structural Mechanics, eds.: H.H. Chung and Y.W. Kwon, PVP-Vol. 225 and NE-Vol. 7, ASME, December 1991, pp. 5-12.

Ari-Gur, J. and Hunt, D.H., "Effects of Anisotropy on the Pulse Response of Composite Panels", Composites Engineering, Vol. 1, No. 5, September 1991, pp. 309-317.

Ari-Gur, J. and Kenig, M.J., "Unified Iso-Deflection Curves for Orthotropic Plates Under Lateral Pressure Pulse", Journal of Applied Mechanics, Vol. 57, No. 2, June 1990, pp. 470-472.

Ari-Gur, J. and Elishakoff, I., "On the Effect of Shear Deformation on Buckling of Columns With Overhang", Journal of Sound and Vibration, Vol. 139, No. 1, May 1990, pp. 165-169.

Ari-Gur, J., Singer, J. and Rohrlé, H., "The Behavior of Composite Thin-walled Structures in Dynamic Buckling under Impact", 13th ICAS Congress, Seattle, Washington, August 1982, pp. 1001-1010 (ICAS Paper No. 82-2.6.2)

Ari-Gur, J., Weller, T. and Singer, J., "Experimental and Theoretical Studies of Columns under Axial Impact", International Journal of Solids and Structures, Vol. 18, No. 7, July 1982, pp. 619-641.

Ari-Gur, J., Singer, J. and Libai, A., "Repeated Buckling Tests of Stiffened Thin Shear Panels", Israel Journal of Technology, Vol. 20, Nos. 4-5, 1982, pp. 220-231.

Singer, J. and Ari-Gur, J., "Dynamic Buckling of Thin-walled Structures under Impact", DGLR Annual Meeting, 100th Birthday Commemoration of Von-Karman, RWTH Aachen, Germany, May 1981 (DGLR Paper No. 81-077).

Ari-Gur, J., Singer, J. and Weller, T., "Dynamic Buckling of Plates under Longitudinal Impact", Israel Journal of Technology, Vol. 19, No.1, 1981, pp. 57-64.

Ari-Gur, J., Baruch, M. and Singer, J., "Buckling of Cylindrical Shells under Combined Axial Pre-load, Non-uniform Heating and Torque", Experimental Mechanics, Vol. 19, No.11, November 1979, pp. 406-410.