



Professor L. John Hart-Smith

Selected publications:

L.J. Hart-Smith (Department of Mechanical Engineering, Monash University, Wellington Road, Clayton, Victoria, 3168, Australia), “Buckling analyses of ideal thin shells and new thin elastic shell theory formulations”, *International Journal of Mechanical Sciences*, Vol. 10, No. 8, August 1968, pp. 665-667, doi:10.1016/0020-7403(68)90071-4

L. J. Hart-Smith (Department of Mechanical Engineering, Monash University, Clayton, Victoria 3168, Australia), “Buckling of thin cylindrical shells under uniform axial compression”, *International Journal of Mechanical Sciences*, Vol. 12, No. 4, April 1970, pp. 299-313, doi:10.1016/0020-7403(70)90084-6

Hart-Smith, L. J., “Mechanically-Fastened Joints for Advanced Composites – Phenomenological Considerations and Simple Analyses,” *Fibrous Composites in Structural Design*, Plenum Press 1980, p. 543.

Hart-Smith, L. J., “Design and Analysis of Bolted and Riveted Joints in Fibrous Composite Structures,” *Proc. International Symposium on Joining and Repair of Fiber-Reinforced Plastics*, London, 10-11 September 1986.

Hart-Smith, L. J., “The Design of Efficient Bolted and Riveted Fibrous Composite Structures,” *Douglas Paper 8335*, 1989.

Hart-Smith, L. J., “Design and Analysis of Adhesive-Bonded Joints,” *Douglas paper 6059*, also published in *Proc Conference on Fibrous Composites in Flight Vehicle Design*, Dayton, OH, September 1972.

Hart-Smith, L. J., “Further Developments in the Design and Analysis of Adhesive-Bonded Structural Joints,” *Proc ASTM Symposium on Joining of Composite Materials*, Minneapolis, MN, April 1980.

Hart Smith, L. J., “Designing to Minimize Peel Stresses in Adhesive-Bonded Joints, Delamination, and Disbonding of Materials,” *ASTM STP 876*, W. S. Johnson, Ed., 1985, pp. 238-266.

Hart-Smith, L. J., “Design of Repairable Composite Structures”, *SAE Trans 851830*, SAE Aerospace Technology Conference, Society of Automotive Engineers, 1985.

R.B. Heslehurst, L. Hart-Smith. The science and art of structural adhesive bonding. *SAMPE Journal*, 38:60–71, 2002.

Dr. L. J. Hart-Smith, “Lessons learned by one aerospace structures engineer in a 40-year career”, 6th

Australasian Congress on Applied Mathematics, ACAM 6, 12-15 December, 2010, Perth, Australia
Hart-Smith, L.J. A revolutionary approach to the analysis of buckling of thin cylindrical shells [online]. In:
AIAC14: Fourteenth Australian Aeronautical Conference. Melbourne: Royal Aeronautical Society, Australian
Division; Engineers Australia, 2011: 306-339. Availability:

<<http://search.informit.com.au/documentSummary;dn=429578447781687;res=IELENG>>

ISBN: 9780987086303.

L.J. Hart-Smith (retired from the Boeing Company), “Incontrovertible proof that the ‘discrepancies’ in thin-shell-buckling studies are in the classical theory, not the test data”, *Journal of Materials: Design and Applications*, February 19, 2014, DOI: 10.1177/1464420714524932