



**Professor R. Narayanan**



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### **Selected Publications:**

#### **Books:**

R. Narayanan (Editor), Plated Structures Stability and Strength, CRC Press, 1983, 272 pages

Narayanan, R. (ed): Shell Structures, Elsevier Applied Science Publishers, London 1985

Narayanan, R. (Ed.) (1987), Aluminum Structures: Advances, Design & Connections, Elsevier Applied Science, London, UK

R. Narayanan (Editor), Shell Structures Stability and Strength, Elsevier Applied Science Publishers, CRC Press, 1990

**Journal Articles, etc.:**

- Horne, M.R., Narayanan, R., Ultimate capacity of longitudinally stiffened plates used in box girders, Proc. Inst. Civ. Engrs, v. 61, n. 2, p.253–280, 1976.
- Horne, M.R., Narayanan, R., Influence on strength of compression panels of stiffener section, spacing and welded connection. Proc. Inst. Civ. Engrs, v. 63, n. 2, p.1–20. 1977.
- Horne, M. R. and Narayanan, R., (1977). “Design of Axially Loaded Stiffened Plates,” J. Struc. Div., ASCE, Vol. 103, pp. 2243–2257.
- R. Narayanan, N.G.V. Der-Avanesian, Elastic buckling of perforated plates under shear, Int. J. Thin-Walled Struct., 2 (1) (1984)
- Narayanan R, Chan SL. Ultimate capacity of plates containing holes under linearly varying edge displacements. Computers and Structures 1985; 21(4): 841-849
- Clarke JD, Narayanan R. Buckling of aluminium alloy stiffened plate ship structure. In: Proceedings of the international conference on steel and aluminium structures, Cardiff, July 1987; aluminium structures—advances design and construction. Amsterdam: Elsevier; 1987. p. 81–92.
- Raj, D.M., Narayanan, R., Khadakkar, A.G., Paramasivam, V.: Effect of ring stiffeners on vibration of cylindrical and conical shell models. J Sound Vibr 179, 413\_426 (1995)
- S. A. Jayachandran, V. Kalyanaraman and R. Narayanan, “Marguerre Shell Type Secant Matrices for the Postbuckling Analysis of Thin, Shallow Composite Shells,” Structural Engineering & Mechanics, Vol. 18, 2004, pp. 41-58
- N. Murugan, R. Narayanan, Finite element simulation of residual stresses and their measurement by contour method, Materials and Design, 30 (2009) 2067-2071
- R. Narayanan, V. Kalyanaraman, A.R. Santhakumar, S. Seetharaman, S.R. Satish Kumar, S. Arul Jayachandran, R. Senthil, Welds-Static and Fatigue Strength – II, vol. 2(31), Institute for Steel Development & Growth Teaching Material (2011), pp. 1–27