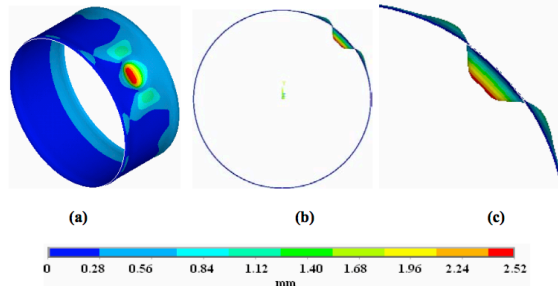




**Professor Nagarajan Rathinam**



**Figure 10** (a) Isometric view (b) Front view of displacement contours of thin cylindrical shells with a circular dent ( $L=340\text{mm}$ ,  $R=350\text{mm}$ ,  $t=1.25\text{mm}$ ,  $D_d=87.5\text{mm}$  and  $t_d=3.75\text{mm}$ ) at limit load condition and (c) Close-up view of lobe formations

From: B. Prabu, A.V. Raviprakash, N. Rathinam, "Parametric study on buckling behaviour of thin stainless steel cylindrical shells for circular dent dimensional variations under uniform axial compression", International Journal of Engineering, Science and Technology Vol. 2, No. 4, 2010, pp. 134-149

See:

[http://www.researchgate.net/profile/Nagarajan\\_Rathinam/citations](http://www.researchgate.net/profile/Nagarajan_Rathinam/citations)

Department of Mechanical Engineering  
Pondicherry Engineering College, Pondicherry, India

#### **Selected Publications:**

B. Prabu, N. Rathinam, R. Srinivasan, K. A. S. Naarayan, 'Finite Element Analysis of Buckling of Thin Cylindrical Shell Subjected to Uniform External Pressure', Journal of Solid Mechanics Vol. 1, No. 2 (2009) pp. 148-158.

B. Prabu, A.V. Raviprakash, N. Rathinam, "Parametric study on buckling behaviour of thin stainless steel cylindrical shells for circular dent dimensional variations under uniform axial compression", International Journal of Engineering, Science and Technology Vol. 2, No. 4, 2010, pp. 134-149.

Prabu, B., Raviprakash, A.V. and Rathinam, N., "Numerical buckling analysis of thin cylindrical shells with combined distributed and local geometrical imperfections under uniform axial compression", International Journal of Computer Aided Engineering and Technology, Vol. 4, No. 4, July 2012, pp. 295-320

N. Rathinam and B. Prabu, "Static buckling analysis of thin cylindrical shell with centrally located dent under uniform lateral pressure", International Journal of Steel Structures, Vol. 13, No. 3, pp. 509 – 518, 2013

N. Rathinam, B. Prabu, "Numerical study on influence of dent parameters on critical buckling pressure of thin cylindrical shell subjected to uniform lateral pressure", Thin-Walled Structures, 03/2015; 88:1-15.