

C O N C L U S I O N

In dealing with nonlinear analysis of Plates and Shells Berger's decoupled equations are sometimes preferred to the classical von-Karman equations which lead to rigorous mathematical and computational analysis. A simplified energy expression leads to Berger type decoupled equations which eliminated the demerits of Berger's equations as well as the disadvantages of von-Karman's equations. The three methods have been employed to the investigation of some nonlinear vibration problems of elastic plates and shallow shells. It has been shown how the simplified approach can be conveniently employed for the nonlinear vibration analysis.