

**Nonlinear Analyses of Rhombic Plates subjected to a Concentrated Load****Mei Duan***James Cook University, Queensland, Australia*

The theoretical formulations are presented for a rhombic plate subjected to a concentrated load. Several numerical modeling analyses are carried out. Numerical solutions of the present theoretical formulations are shown and compared with the available results using finite element analysis for various plates with different length to width ratios, thickness and supported edges. Some excellent agreements are achieved. It is seen that the accuracy and efficiency of the proposed new theory formulation are confirmed.

[View the extended summary](#)