## Parametric studies on linear buckling strength of the perforated composite plates

Ionel Chirica, Elena-Felicia Beznea Dunarea de Jos University of Galati

## ABSTRACT

The finite-element structural analysis method was used to study the effects of plate aspect ratio, hole geometry, and hole size on the mechanical buckling strengths of the perforated plates. The compressive-buckling strengths of the plates could be increased considerably only under aspect ratios. In this paper, the analysis has been performed only for the plate clamped on sides. For each diameters ratio there are plotted variation of the transversal displacement of the point placed in the middle of the plate, according to the pressure that has been applied

Keywords: finite element analysis, composite plates, modal analysis

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