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Free Vibration Analysis of Functionally Graded Plates with Multiple Circular and Non-circular Cutouts
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Abstract: Cutouts are inevitable in structures due to practical consideration. In order to investigate the free vibration of functionally graded plates with multiple circular and non-circular cutouts, finite element method is used. The volume fraction of the material constituents is assumed to follow a simple power law distribution. The parameters considered in this paper are as follows: cutout size, cutout location, number of cutouts and different boundary conditions. It should be mentioned that free vibration for FG plates(such as rectangular/skew/trapezoidal/circular plates) with multiple cutouts has not been studied yet and hence the results out coming from this paper may be used as bench marks for future works. Key words: graded materials, rectangular/skew/trapezoidal/circular plates, multiple circular/non-circular cutouts
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