

QUASI-STATIC THERMAL DEFLECTION IN A THIN CLAMPED CIRCULAR PLATE

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Abstract

The present paper deals with the determination of normal deflection of a thin clamped circular plate due to ramp type heating of a concentric circular region of lower face is discussed. The upper face of the plate is kept at zero temperature. The circular edge is thermally insulated. The expression for temperature and thermal deflection are obtained in a series form in terms of Bessel's function and they are illustrated numerically.