

## THERMOELASTIC PROBLEM OF A THICK ANNULAR DISC DUE TO RADIATION

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### Abstract

An attempt has been made to study thermoelastic response of a thick annular disc with boundary conditions are of radiation type. We use the transformation techniques to find the thermoelastic solution. The results are obtained as series of Bessel functions. Numerical calculations are carried out for a particular case of a thick disc made of Aluminum metal and the results are depicted in figures.

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Key Words : *Thermoelastic problem, Transient response, Thick disc, Thermal stress, Temperature distribution.*

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