

## Transient Thermal Stress Analysis by Finite Element Method

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### Abstract

Transient Thermal Stress analysis problems in nuclear reactor design require the knowledge of the temperature distribution during normal reactor transient and in accident situations. In this paper finite element method has been applied to estimate thermal response and subsequently transient thermal stresses using same discretization. The thermal response obtained by Crank-Nicholson and Galerkin's method have also been compared.

