

Numerical Analysis of Thermoviscoelastic Behavior of Post-Restored Teeth Using a Generalized Approach

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The objective of this study is to develop a general finite element formulation associated with an incremental adaptive procedure which established for analysis of the orthotropic Post-Restored Teeth. This paper concerns with development of a numerical algorithm for the solution of quasistatic initial / boundary value problems involving the linear media with thermal and mechanical deformations. A mathematical algorithm is then developed for a generalized finite element formulation to deal with the quasistatic thermoviscoelastic behavior of Teeth post-restoration problems.

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