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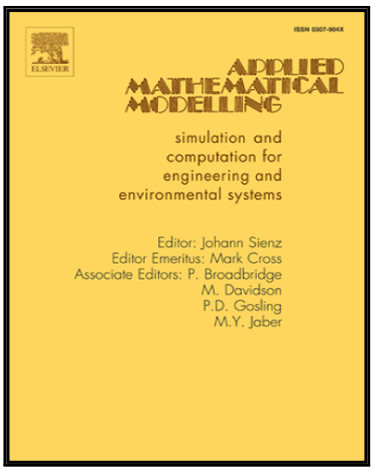

Sensitivity analysis of temperature field in the heated soft tissue with respect to the perturbations of porosity

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Highlights

- Generalized dual-phase lag equation for axisymmetrical domain is considered.
- Sensitivity analysis is used to estimate temperature changes due to the perturbation of the porosity.
- Numerical algorithm based on the explicit scheme of the finite difference method is proposed.

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