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Finite integral transform-based analytical solutions of dual phase lag bio-heat transfer equation

Sumit Kumar , Atul Srivastava

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**Highlights**

- Analytical solution of non-Fourier bio heat transfer equation.
- Finite integral transform.
- Time independent/dependent boundary conditions.
- Coupling of transient RTE and non-Fourier heat conduction models.
- Thermal analysis of laser-irradiated biological tissue phantoms.

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