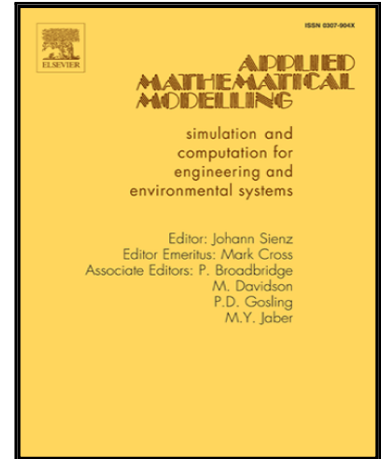


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Reflection and refraction of thermoelastic waves at an interface of two couple-stress solids based on Lord-Shulman thermoelastic theory

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Highlights

- The coupled governing equations of thermoelastic couple stress solid are derived in detail.
- The thermal wave effects and the couple-stress effects are both studied.
- 3) The mechanically and thermally imperfect interface conditions are considered.
- 4) The transmission mechanism of waves across an imperfect interface is explained by three channels of energy flux.
- 5) The influences of the thermal relaxation time are discussed.

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