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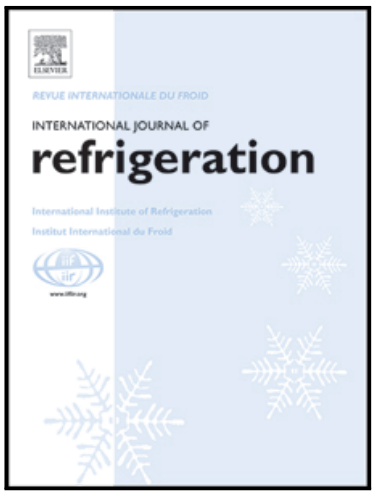

Effect of temperature dependent parameters properties on the fin performance under dehumidifying operating conditions

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Highlights

- The finite-element formulation for modeling dehumidifying operating conditions is presented.
- The temperature-dependent thermal conductivity has negligible effects over a considered range of temperature.
- The temperature-dependent heat transfer coefficient has a considerable effect on both dry and wet fins.
- The effect of temperature-dependent properties is the same for the isotropic and orthotropic materials.

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