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Title: Development of a Simplified Heat Transfer Model of Hollow Blocks by Using Finite Element Method in Frequency Domain

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### Highlight for review

- A frequency domain finite element model (FDFEM) for hollow blocks is developed.
- The  $s$ -polynomial transfer function for hollow block is identified in frequency domain
- The simplified heat transfer model is derived from the identified transfer function.
- The simplified heat transfer model can predict the dynamic thermal performance of hollow blocks.

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