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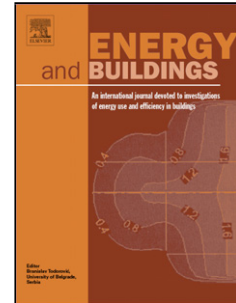
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1 **Highlights**

- 2 • An optimal design strategy for vertical ground heat exchangers is proposed
- 3 • The method aims to minimize system upfront cost and thermodynamic irreversibility
- 4 • Two case studies are presented to validate the effectiveness of this strategy

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