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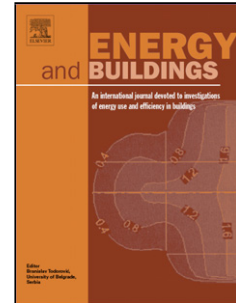
Title: An integrated predictive model of the long-term performance of ground source heat pump (GSHP) systems

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An integrated predictive model of the long-term performance of ground source heat pump (GSHP) systems

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Highlights:

- An integrated simulation model of ground source heat pump system was proposed.
- The proposed model was validated with three-year data from practical engineering.
- Dynamic operation characteristics and system accessories should be considered.
- 15-year performances of systems with different thermal imbalance ratios were evaluated.
- The increased thermal imbalance ratio can deteriorate the system performance.

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