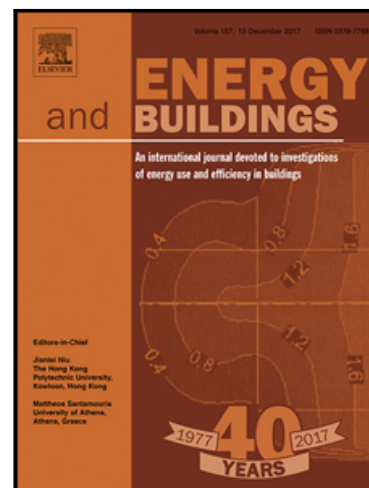


## Accepted Manuscript

wThe experimental study on thermal conductivity of backfill material of ground source heat pump based on iron tailings

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PII: S0378-7788(17)33541-7  
DOI: [10.1016/j.enbuild.2018.06.010](https://doi.org/10.1016/j.enbuild.2018.06.010)  
Reference: ENB 8612



To appear in: *Energy & Buildings*

Received date: 28 October 2017  
Revised date: 20 April 2018  
Accepted date: 7 June 2018

Please cite this article as: Rong Wan , Dequan Kong , Jiayuan Kang , Tianyu Yin , Jiangfeng Ning , Jianping Ma , wThe experimental study on thermal conductivity of backfill material of ground source heat pump based on iron tailings, *Energy & Buildings* (2018), doi: [10.1016/j.enbuild.2018.06.010](https://doi.org/10.1016/j.enbuild.2018.06.010)

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### Highlights:

- The thermal conductivity of iron tailings is higher than that of loess at same condition.
- Mixtures of tailings and loess present higher thermal conductivity than single use of loess and iron tailings..
- When loess and tailings were mixed with the mass ratio of 3:7, the thermal conductivities are higher than that of the others.
- The thermal conductivity of backfill materials shows great relationship with saturation.
- A empirical equation of thermal conductivity of backfill material was proposed.

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