

Accepted Manuscript

The sleeping thermal comfort model based on local thermal requirements in winter

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PII: S0378-7788(18)30001-X
DOI: [10.1016/j.enbuild.2018.05.034](https://doi.org/10.1016/j.enbuild.2018.05.034)
Reference: ENB 8575



To appear in: *Energy & Buildings*

Received date: 1 January 2018
Revised date: 6 May 2018
Accepted date: 19 May 2018

Please cite this article as: Cong Song , Yanfeng Liu , Jiaping Liu , The sleeping thermal comfort model based on local thermal requirements in winter, *Energy & Buildings* (2018), doi: [10.1016/j.enbuild.2018.05.034](https://doi.org/10.1016/j.enbuild.2018.05.034)

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Highlights:

- Human body was segmented into head and covered body in heat transfer analysis.
- Thermal comfort model (PTS-WPD model) for sleeping state was developed.
- The predicted results by the proposed model agreed well with experimental results.
- Coupled thermal comfort zone of indoor environment and bed climate was established.

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