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

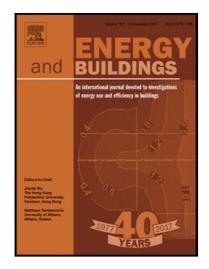
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PII: \$0378-7788(18)30001-X DOI: 10.1016/j.enbuild.2018.05.034

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

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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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