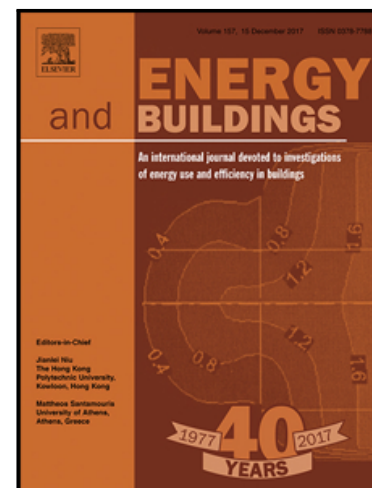


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Air infiltration rates in the bedrooms of 202 residences and estimated parametric infiltration rate distribution in Guangzhou, China

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**Highlights**

- Air infiltration rates in 202 bedrooms using natural ventilation were measured in Guangzhou, China.
- Over 80% of the measured bedrooms didn't satisfy the Chinese building code for minimum ventilation rate.
- The air infiltration rates are log-normally distributed ( $R^2 = 0.85$ ), ranging from 0.05 to 1.32 h<sup>-1</sup>, with an arithmetic mean of 0.41 h<sup>-1</sup>.
- The air infiltration rate distribution can be used in analyzing cooling energy consumption and indoor air quality from outdoor pollution in natural ventilated residential buildings in south China.

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