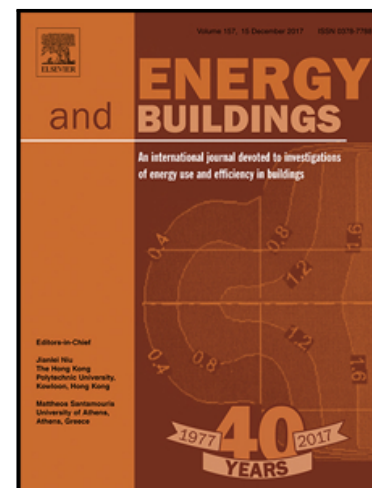


Accepted Manuscript

An identification method for room temperature dynamic model based on analytical solution in VAV system

Tian Xing , Xiuming Li , Jili Zhang

PII: S0378-7788(17)34086-0
DOI: [10.1016/j.enbuild.2018.06.039](https://doi.org/10.1016/j.enbuild.2018.06.039)
Reference: ENB 8641



To appear in: *Energy & Buildings*

Received date: 18 December 2017
Revised date: 5 May 2018
Accepted date: 17 June 2018

Please cite this article as: Tian Xing , Xiuming Li , Jili Zhang , An identification method for room temperature dynamic model based on analytical solution in VAV system, *Energy & Buildings* (2018), doi: [10.1016/j.enbuild.2018.06.039](https://doi.org/10.1016/j.enbuild.2018.06.039)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights:

- **Dynamic model of room temperature is built by analytical method and characteristic parameters can be calculated directly through analytical solutions.**
- **Other factors affecting the room temperature response, including the heat storage of envelope structures and time delay, are also considered in the model.**
- **Models are simulated and compared with measured data in experiments.**
- **Proposed model has a higher fitting goodness than classical model.**

Download English Version:

<https://daneshyari.com/en/article/6727246>

Download Persian Version:

<https://daneshyari.com/article/6727246>

[Daneshyari.com](https://daneshyari.com)