

## Accepted Manuscript

Title: Inherent operational characteristics aided fuzzy logic controller for a variable speed direct expansion air conditioning system for simultaneous indoor air temperature and humidity control

Authors: Huaxia Yan, Yudong Xia, Xiangguo Xu, Shiming Deng

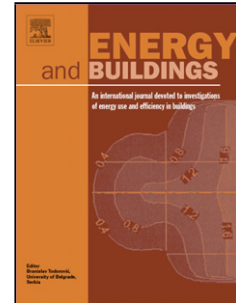
PII: S0378-7788(17)30992-1  
DOI: <https://doi.org/10.1016/j.enbuild.2017.10.013>  
Reference: ENB 8032

To appear in: *ENB*

Received date: 21-3-2017  
Revised date: 8-8-2017  
Accepted date: 4-10-2017

Please cite this article as: Huaxia Yan, Yudong Xia, Xiangguo Xu, Shiming Deng, Inherent operational characteristics aided fuzzy logic controller for a variable speed direct expansion air conditioning system for simultaneous indoor air temperature and humidity control, Energy and Buildings <https://doi.org/10.1016/j.enbuild.2017.10.013>

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.



**Inherent operational characteristics aided fuzzy logic controller  
for a variable speed direct expansion air conditioning system for  
simultaneous indoor air temperature and humidity control**

Huaxia Yan<sup>a</sup>, Yudong Xia<sup>b</sup>, Xiangguo Xu<sup>c,\*</sup>, Shiming Deng<sup>b</sup>

<sup>a</sup>Faculty of Science and Technology, Technological and Higher Education Institute of  
Hong Kong, Hong Kong SAR, PR China

<sup>b</sup>Department of Building Service Engineering, The Hong Kong Polytechnic University,  
Hong Kong SAR, PR China

<sup>c</sup>Institute of Refrigeration and Cryogenics, Zhejiang University, and Key laboratory of  
Refrigeration and Cryogenic Technology of Zhejiang Province, Hangzhou 310027, China

---

\* Corresponding author Tel.: +86 571 87953944; fax: +86 571 87953944.  
E-mail address: zjuxgxu@zju.edu.cn (X. Xu).

Download English Version:

<https://daneshyari.com/en/article/6729440>

Download Persian Version:

<https://daneshyari.com/article/6729440>

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