

Accepted Manuscript

Title: Robust predictive models for estimating frost deposition on horizontal and parallel surfaces

Author: Alireza Zendeboudi, Xianting Li

PII: S0140-7007(17)30202-5

DOI: [http://dx.doi.org/doi: 10.1016/j.ijrefrig.2017.05.013](http://dx.doi.org/doi:10.1016/j.ijrefrig.2017.05.013)

Reference: IJIR 3644

To appear in: *International Journal of Refrigeration*

Received date: 23-1-2017

Revised date: 8-5-2017

Accepted date: 13-5-2017

Please cite this article as: Alireza Zendeboudi, Xianting Li, Robust predictive models for estimating frost deposition on horizontal and parallel surfaces, *International Journal of Refrigeration* (2017), [http://dx.doi.org/doi: 10.1016/j.ijrefrig.2017.05.013](http://dx.doi.org/doi:10.1016/j.ijrefrig.2017.05.013).

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.



Manuscript prepared for International Journal of Refrigeration

Robust predictive models for estimating frost deposition on horizontal and parallel surfaces

Alireza Zendehboudi ^{*}, Xianting Li ^{*}

*Department of Building Science, School of Architecture, Tsinghua University, Beijing
100084, China*

***Corresponding authors:**

Alireza Zendehboudi (E-mail: a-115@mails.tsinghua.edu.cn)

Xianting Li (E-mail: xtingli@tsinghua.edu.cn)

Highlights:

- MLP-ANN scheme was developed for frost formation on horizontal and parallel surfaces.
- A variety of experimental samples were gathered to present a general predictive tool.
- The predictability of the MLP-ANN was compared with the well-known models.
- The coefficients of determination of the MLP-ANNs were higher than 0.9953.
- Outlier diagnosis is implemented to determine the erroneous samples.

Download English Version:

<https://daneshyari.com/en/article/5017072>

Download Persian Version:

<https://daneshyari.com/article/5017072>

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