



## NIST Technical Note 1703 Model Development and Validation for Particle Release Experiments in a Two-story Office Building

By U. S. Department Of Commerce

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 96 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. Whole-building airflow and contaminant transport modeling has a potentially important role in the development of contaminant sampling strategies in response to the airborne release of chemical or biological agents. The effectiveness of these strategies relies on the ability of the selected sampling locations to adequately characterize the levels of contamination throughout an exposed facility to a desired level of confidence in the sampled results. The Department of Homeland Security has sponsored a series of multi-agency exercises, during which contamination experiments were performed to gauge the confidence that could be obtained by various sampling strategies as well as the effectiveness of various sampling methods in a realworld setting. These experiments are very resource intensive and time-consuming, limiting the number of experiments that can be reasonably performed. Building simulation can be used to perform virtual experiments that would allow more tests to be performed under a much larger set of building operational and environmental configurations. However, in order for the simulations to be useful, the building models need to provide realistic results with a high level of confidence. The purpose of this...



[READ ONLINE](#)  
[ 8.44 MB ]

### Reviews

*Certainly, this is actually the greatest job by any publisher. It is really simplistic but shocks within the 50 % of the pdf I am just happy to tell you that this is the very best ebook i have read in my own lifestyle and may be he greatest ebook for actually.*

-- **Marge Jacobson MD**

*This publication is definitely not effortless to get started on studying but extremely enjoyable to see. I was able to comprehend almost everything using this created e pdf. I am pleased to let you know that here is the finest publication i have go through in my very own lifestyle and could be he very best pdf for ever.*

-- **Prof. Juliana Langosh DVM**