

A Modeling Study of Ventilation in Manufactured Houses

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ABSTRACT

The design of mechanical ventilation systems for small, tightly sealed buildings is a complex task. This paper presents a modeling study of ventilation in manufactured houses. The study involves the use of a computer program to simulate the airflow and contaminant concentrations in a house with various ventilation systems. The results show that the design of the ventilation system is critical to the health and comfort of the occupants. The study also shows that the use of mechanical ventilation can significantly reduce the risk of indoor air pollution.

INTRODUCTION

The design of mechanical ventilation systems for small, tightly sealed buildings is a complex task. This paper presents a modeling study of ventilation in manufactured houses. The study involves the use of a computer program to simulate the airflow and contaminant concentrations in a house with various ventilation systems. The results show that the design of the ventilation system is critical to the health and comfort of the occupants. The study also shows that the use of mechanical ventilation can significantly reduce the risk of indoor air pollution.

The first problem in the design of mechanical ventilation systems is the determination of the required ventilation rate. This is typically done by using a standard method, such as the ASHRAE 62.1-1989 standard. However, this method is based on a number of assumptions that may not be valid for all buildings. For example, the standard assumes that the building is tightly sealed, which may not be the case for manufactured houses. Therefore, a more accurate method for determining the required ventilation rate is needed.

The second problem in the design of mechanical ventilation systems is the selection of the ventilation system. There are a number of different systems available, each with its own advantages and disadvantages. The selection of the system should be based on a number of factors, including the building's size, the climate, and the occupants' needs.

Several different ventilation systems are available. These include: 1) natural ventilation, which relies on the natural forces of wind and buoyancy to move air through the building; 2) mechanical ventilation, which uses fans or blowers to move air through the building; and 3) hybrid ventilation, which combines natural and mechanical ventilation. Each system has its own advantages and disadvantages, and the selection of the system should be based on a number of factors, including the building's size, the climate, and the occupants' needs.

- Natural ventilation is the simplest and least expensive system, but it is also the least effective. It relies on the natural forces of wind and buoyancy to move air through the building, which may not be sufficient to provide adequate ventilation.
- Mechanical ventilation is more effective than natural ventilation, but it is also more expensive. It uses fans or blowers to move air through the building, which can provide a more consistent and controlled flow of air.
- Hybrid ventilation is a combination of natural and mechanical ventilation. It can provide the benefits of both systems, but it is also more expensive than either system alone.

The results of the modeling study show that the design of the ventilation system is critical to the health and comfort of the occupants. The study also shows that the use of mechanical ventilation can significantly reduce the risk of indoor air pollution.

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culture etc However sustainability is indissolubly linked to vernacular architecture and the lessons this architecture can offer **ERDA Energy Research Abstracts** ,1983 **Energy Research Abstracts** ,1995 Building Ventilation Mat Santamouris, Peter Wouters, 2006-06-01 Ensuring optimum ventilation performance is a vital part of building design Prepared by recognized experts from Europe and the US and published in association with the International Energy Agency's Air Infiltration and Ventilation Centre AIVC this authoritative work provides organized classified and evaluated information on advances in the key areas of building ventilation relevant to all building types Complexities in airflow behaviour climatic influences occupancy patterns and pollutant emission characteristics make selecting the most appropriate ventilation strategy especially difficult Recognizing such complexities the editors bring together expertise on each key issue From components to computer tools this book offers detailed coverage on design analysis and performance and is an important and comprehensive publication in this field Building Ventilation will be an invaluable reference for professionals in the building services industry architects researchers including postgraduate students studying building service engineering and HVAC and anyone with a role in energy efficient building design **Teaming for Efficiency** ,2002 Advanced Studies in Energy Efficiency and Built Environment for Developing Countries Chaham Alalouch, Hassan Abdalla, Emmanuel Bozonnet, George Elvin, Oscar Carracedo, 2019-05-21 This edited volume consists of three parts It is a culmination of selected research papers presented at the second version of the international conference on Improving Sustainability Concept in Developing Countries ISCDC and the second version of the international conference on Alternative and Renewable Energy Quest in Architecture and Urbanism AREQ organized by IEREK in Egypt 2017 It discusses major environmental issues and challenges which threaten our future These include climate change impact environmental deterioration increasing demand for energy and new approaches for alternative renewable energy sources which became a necessity for survival In addition to addressing the different environmental issues witnessed today research presented in this book stressed on the need of sustainably shaping buildings and cities using renewable energy sources Topics included in this book are 1 Resilience in the Built Environment 2 Design for energy efficient architecture and 3 Alternative and Renewable Energy Resources Quest in Architecture and Urbanism The book is of interest to researchers and academicians who continuously aim to update their knowledge in these fields as well as decision makers needing the enough knowledge to carry out the right decisions towards the benefit of the environment and society *National Manufactured Home Construction and Safety Standards: September 11, 1981* United States. Congress. House. Committee on Banking, Finance, and Urban Affairs. Subcommittee on Housing and Community Development, 1981 *Affordable Housing Construction R&D* United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Technology, Environment, and Aviation, 1993 **Journal of Research of the National Institute of Standards and Technology** ,1998

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