

CONTENTS

Overview	1
<b>AIR MOVEMENT, VENTILATION, AND INDOOR AIR QUALITY</b>	
Measured Airflows in a Multifamily Building	7
A Study of Ventilation Measurement in an Office Building	23
Changes in Airtightness Levels of Six Office Buildings	47
The Effect of Varying Levels of Induced Duct Leakage on Differential Pressures in a Florida House	58
Assessing the Effectiveness of Slab Flooring as a Barrier to Soil Gas and Radon Infiltration	68
<b>WINDOW AIR LEAKAGE</b>	
A Description of the New ASTM Test Method E 1424, Used for Measuring Fenestration Air Leakage at Differential Temperatures and Pressures	81
Whole House Fenestration Energy Consumption as a Function of Variable Window Air Leakage Rates	90
Extraneous Air Leakage from Window Perimeters	108
Air Leakage Characteristics of Various Rough-Opening Sealing Methods for Windows and Doors	123
<b>ENVELOPE HEAT AND MASS TRANSFER</b>	
Airflows and Moisture Conditions in Walls of Manufactured Homes	137
An Analysis of Moisture Accumulation in the Roof Cavities of Manufactured Housing	156
Impact of Air Infiltration in Frame Walls on Energy Loads : Taking Advantage of the Interaction between Infiltration, Solar Radiation and Conduction	178
Thermal Performance Characterization of Residential Wall System Using and Calibrated Hot Box with Airflow Induced by Differential Pressures	197
<b>ENVELOPE AND DISTRIBUTION SYSTEM LEAKAGE</b>	
Air Leakage in the Perspective of International Standards	231
Measured Airtightness of 24 Detached Houses over Periods of up to Three Years	265
Uncertainties in Fan Pressurization Measurements	266
Field Comparison of Alternative Techniques for Measuring Air Distribution System Leakage	284
Author Index	299
Subject Index	301