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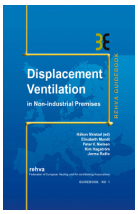
Federation of European Heating, Ventilation and Air Conditioning Associations

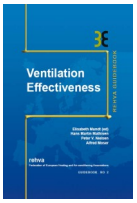
REHVA GUIDEBOOKS

written by teams of European experts



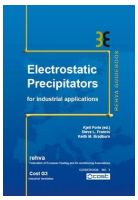
NO.01: DISPLACEMENT VENTILATION IN NON-INDUSTRIAL PREMISSES

The guidebook serves as a comprehensive and easy-to-understand design manual, explains the benefits and limitations of displacement in commercial ventilation and outlines where ventilation should be applied.



NO.02: VENTILATION EFFECTIVENESS

This Guidebook provides easy-to-understand descriptions of the indices used to measure the performance of a ventilation system and which indices to use in different cases.

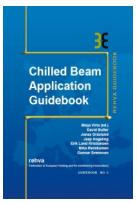


NO.03: ELECTROSTATIC PRECIPITATORS FOR INDUSTRIAL APPLICATIONS

This Guidebook provides basic knowledge of the physics and power supplies of electrostatic precipitators. It also deals with practical aspects of ESP design and gives examples of typical applications of ESPs.

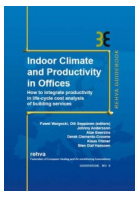
NO.04: VENTILATION AND SMOKING - REDUCING THE EXPOSURE TO ETS IN BUILDINGS

The book is aimed at all concerned with the subjects of air quality and tobacco smoke, primarily HVAC engineers, architects, occupational hygienists, facility managers, building owners, building users and policymakers in the public health sector.



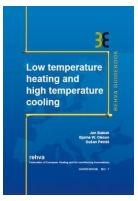
NO.05: CHILLED BEAM APPLICATION GUIDEBOOK

This guidebook presents chilled beam systems, which are primarily used for cooling and ventilation in spaces and appreciate good indoor environmental quality and individual space control.



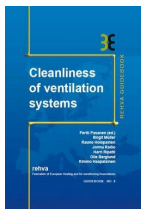
NO.06: INDOOR CLIMATE AND PRODUCTIVITY IN OFFICES

Indoor Climate and Productivity in Offices Guidebook shows how to quantify the effects of indoor environment on office work and also how to include these effects in the calculation of building costs.



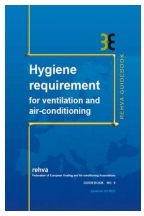
NO.07: LOW TEMPERATURE HEATING AND HIGH TEMPERATURE COOLING

This Guidebook describes the systems that use water as heat-carrier and when the heat exchange within the conditioned space is more than 50% radiant.



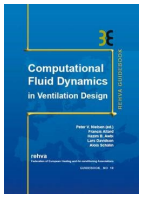
NO.08: CLEANLINESS OF VENTILATION SYSTEM

Cleanliness of ventilation systems Guidebook aims to show that indoor environmental conditions substantially influence health and productivity. This Guidebook presents criteria and methods on how to design, install and maintain clean air handling systems for better indoor air quality.



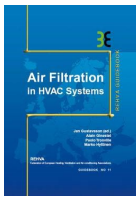
NO.09: HYGIENE REQUIREMENT FOR VENTILATION AND AIR CONDITIONING

Hygiene requirement is intended to provide a holistic formulation of hygiene-related constructional, technical and organisational requirements to be observed in the planning, manufacture, execution, operation and maintenance of ventilating and air-conditioning systems.



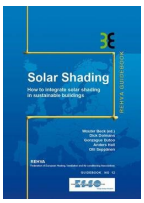
NO.10: COMPUTATIONAL FLUID DYNAMICS IN VENTILATION DESIGN

CFD-calculations have been rapidly developed to a powerful tool for the analysis of air pollution distribution in various spaces. The Guidebook is written by a working group of highly qualified international experts representing research, consulting and design.



NO.11: AIR FILTRATION IN HVAC SYSTEMS

Air filtration Guidebook will help the designer and user to understand the background and criteria for air filtration, how to select air filters and avoid problems associated with hygienic and other conditions at operation of air filters.

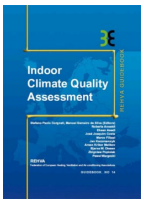


NO.12: SOLAR SHADING-HOW TO INTEGRATE SOLAR SHADING IN SUSTAINABLE BUILDINGS

The Guidebook gives practical guidance for selection, installation and operation of solar shading as well as future trends in integration of HVAC-systems and solar control.

NO.13: INDOOR ENVIRONMENT AND ENERGY EFFICIENCY IN SCHOOLS - PART 1 PRINCIPLES

Indoor and Energy Efficiency in Schools Guidebook describes the optimal design and operation of schools with respect to low energy cost and performance of the students.



NO.14: INDOOR CLIMATE QUALITY ASSESSMENT - EVALUATION OF INDOOR THERMAL AND INDOOR AIR QUALITY

This REHVA Guidebook gives building professionals a useful support in the practical measurements and monitoring of the indoor climate in buildings.

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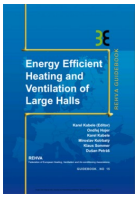


NO.15: ENERGY EFFICIENT HEATING AND VENTILATION OF LARGE HALLS

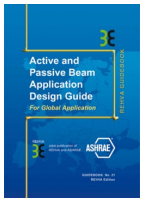
This guidebook is focused on modern methods for design, control and operation of energy efficient heating systems in large spaces and industrial halls.

NO.20: ADVANCED SYSTEM DESIGN AND OPERATION OF GEOTABS BUILDINGS

This guidebook provides comprehensive information on GEOTABS systems. It is intended to support building owners, architects and engineers in an early design stage showing how GEOTABS can be integrated into their building concepts.

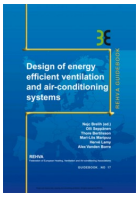
NO.16: HVAC IN SUSTAINABLE OFFICE BUILDINGS - A BRIDGE BETWEEN OWNERS AND ENGINEERS

This guidebook aims to build a bridge between the real estate community and the engineering community.



NO.21: ACTIVE AND PASSIVE BEAM APPLICATION DESIGN GUIDE

Active and Passive Beam Application Design Guide provide energy-efficient methods of cooling, heating, and ventilating indoor areas, especially spaces that require individual zone control and where internal moisture loads are moderate

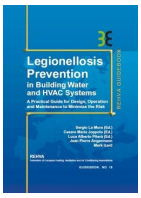


NO.17: DESIGN OF ENERGY EFFICIENT VENTILATION AND AIR-CONDITIONING SYSTEMS

This guidebook covers numerous system components of ventilation and air-conditioning systems and shows how they can be improved by applying the latest technology products.

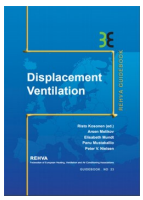
NO.22: INTRODUCTION TO BUILDING AUTOMATION, CONTROLS AND TECHNICAL BUILDING MANAGEMENT

This guidebook aims to provide an overview on the different aspects of building automation, controls and technical building management.



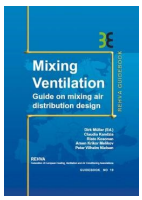
NO.18: LEGIONELLOSIS PREVENTION IN BUILDING WATER AND HVAC SYSTEMS: A PRACTICAL GUIDE FOR DESIGN, OPERATION AND MAINTENANCE TO MINIMIZE THE RISK

This Guidebook is a practical guide for design, operation and maintenance to minimize the risk of legionellosis in building water and HVAC systems.



NO.23: DISPLACEMENT VENTILATION

The aim of this Guidebook is to give the state-of-the art knowledge of the displacement ventilation technology, and to simplify and improve the practical design procedure.



NO.19: MIXING VENTILATION - GUIDEBOOK ON MIXING AIR DISTRIBUTION DESIGN

In this guidebook most of the known and used in practice methods for achieving mixing air distribution are discussed. Mixing ventilation has been applied to many different spaces providing fresh air and thermal comfort to the occupants.

NO.24: FIRE SAFETY IN BUILDINGS. SMOKE MANAGEMENT GUIDELINES

This guidebook describes the different principles of smoke prevention and their practical implementation by way of natural and mechanical smoke extraction systems, smoke control by pressurization systems and appropriate partition measures.

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