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principles, and

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comfort provided by  
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You can achieve truly  
natural ventilation,  
by considering the  
building's structure,  
envelope, energy use,  
and form, as well as  
giving the occupants  
thermal comfort and

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healthy indoor air. By using scientific and architectural visualization tools included here, you can develop ventilation strategies without an engineering background.

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Taylor ...

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Natural ventilation design contributes to energy efficiency in residential spaces, while ensuring a supply of fresh air even without a mechanical ventilation system. Section 1203 of the NYC Building Code allows property owners to deploy natural and

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mechanical For  
ventilation  
independently or  
simultaneously.

However, the code  
clearly states that  
natural ventilation is  
mandatory for any  
indoor location  
classified as habitable  
space by the NYC  
Building Code.

Designing Residential  
*Page 21/82*

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Buildings for Natural  
Ventilation

As a designer it is  
important to

understand the  
challenge of

simultaneously

designing for natural  
ventilation and

mechanical

cooling—it can be

difficult to design

structures that are

intended to rely on

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Space For  
both natural  
ventilation and  
artificial cooling. A  
naturally ventilated  
structure often  
includes an  
articulated plan and  
large window and  
door openings, while  
an artificially  
conditioned building  
is sometimes best  
served by a compact  
plan with sealed

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Designing natural ventilation can become extremely complex because of the interaction between cross ventilation and the stack effect as well as



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complex building geometries and the distribution of openings. This can require analysis using specialist software analysis systems such as computational fluid dynamics .

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students. The authors  
present both  
historical and  
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successfully naturally  
ventilated spaces and

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offer discussions of recent research that challenge the perceptions of "coolth" and thermal comfort provided by air conditioning.'

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An Architect's ...

By using key natural ventilation strategies to ventilate during

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the day or night

(night cooling),

mixed mode

ventilation reduces

the use of mechanical

systems and possibly

the size of the

system. Like natural

ventilation systems

with WindowMaster,

mixed mode

ventilation systems

utilize sensors to

monitor indoor

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temperature, CO2 levels, and humidity, as well as outdoor conditions.

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Learn the basics about natural and mixed mode ventilation ...

The procedure below can be used to design ventilation systems: Calculate heat or cooling load,

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including sensible  
and latent heat

Calculate necessary  
air shifts according

the number of

occupants and their  
activity or any other

special process in the  
rooms Calculate air  
supply temperature

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Engineering ToolBox

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Another term associated with natural ventilation is “passive cooling”, which refers to designs that do not use complicated or sophisticated mechanical equipment in order to induce comfortable...

10 Natural

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'Mixed-mode'

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ventilation uses both natural and mechanical ventilation, ... or litres per second. The ventilation rate will be determined by the type and size of space and the way it is occupied (for example, the number of occupants, sources of heat, moisture, ...

Designing Buildings

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Guide  
This has led to a lack of simple yet robust tools to guide the architect through the implementation of a natural ventilation system in the early stages of building design, forcing the

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architect to choose between the risk of designing a natural ventilation which may not work (and may even lead to higher energy consumption) and the security of a mechanical ventilation and cooling system which he/she knows will keep the occupants

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comfortable For rain or  
shine.

Natural

Ventilation An  
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Local exhaust  
ventilation (LEV), or  
extraction, is an  
engineering control  
solution to reduce  
exposures to dust,  
mist, fume, vapour or  
gas in a workplace

Use a properly

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designed LEV system  
that will...

Natural

Ventilation - Health

and Safety Executive

Building tightness,  
good ventilation for

occupants and

natural ventilation

design should be

considered together

for a successful

energy-efficient

natural ventilation

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spaces, as set out in Building Regulations. Strategies have to be developed for winter and summer often requiring different products and control logic.

NATURAL  
VENTILATION  
STRATEGIES

When the Natural  
ventilation model

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option is set for  
Scheduled, and for  
heating and cooling  
design calculations,  
natural ventilation is  
defined simply as  
follows: Check the  
'On' checkbox under  
the Natural  
Ventilation header.  
Select the flow type  
Set the maximum  
zone natural  
ventilation rate in air

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changes per hour (if  
flow type is 1-By  
zone).

Buildings can breathe naturally, without the use of mechanical systems, if you design the spaces properly.

This accessible and thorough guide shows you how in



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more than 260 color diagrams and photographs illustrating case studies and CFD simulations. You can achieve truly natural ventilation, by considering the building's structure, envelope, energy use, and form, as well as giving the occupants thermal comfort and

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the latest research in thermal and fluid dynamics will keep your designs sustainable, energy efficient, and up-to-date.

This guideline defines ventilation and then natural ventilation. It explores the design requirements for natural ventilation in

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the context of  
infection control,  
describing the basic  
principles of design,  
construction,  
operation and  
maintenance for an  
effective natural  
ventilation system to  
control infection in  
health-care settings.

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use of mechanical systems, if you design the spaces properly. This accessible and thorough guide shows you how in more than 260 color diagrams and photographs illustrating case studies and CFD simulations. You can achieve truly natural ventilation, by

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sections that  
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summarize the  
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science, explain rules  
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of thumb, and detail  
the latest research in  
thermal and fluid  
dynamics will keep  
your designs  
sustainable, energy  
efficient, and up-to-  
date.

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This guide sets out recommendations for every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather,



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and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. This is the first technical guide from the Council on Tall Buildings and

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Buildings &

Sustainability

Working Group

looking in depth at a

key element in the

creation of tall

buildings with a

much-reduced

environmental

impact, while taking

the industry closer to

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what constitutes a

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building, and what  
factors affect the  
sustainability  
threshold for tall.

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AIOLOS is a  
computational tool  
for the calculation of  
the airflow rates in  
naturally ventilated  
buildings.

Overheating in

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commonplace. This book describes how we can keep cool

without conventional

air-conditioning:

improving comfort

and productivity

while reducing

energy costs and

carbon emissions. It

provides architects,

engineers and policy

makers with a ' how-

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to 'guide for the application of natural cooling in new and existing buildings. It demonstrates, through reference to numerous examples, that natural cooling is viable in most climates around the world. This completely revised and expanded second edition

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Understanding our environment, rather than fighting it, will help us to live sustainably in our rapidly warming world.

The Recovery of Natural Environments in Architecture challenges the modern practice of



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mechanically cooling  
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buildings in  
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and environment  
they are located. This  
book unravels the  
extremely complex  
history of  
understanding and  
perception of air, bad  
air, miasmas,  
airborne pathogens,

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beneficial thermal conditions, ideal climates and climate determinism. It uncovers inventive and entirely viable attempts to design large buildings, hospitals, theatres and academic buildings through the 19th and early 20th centuries, which use the configuration

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of the building for itself and a shrewd understanding of the natural ventilation physics of airflow and fluid dynamics to make good, comfortable interior spaces. In exhuming these ideas and reinforcing them with contemporary scientific insight, the book proposes a

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recovery of the lost  
art and science of  
making naturally  
conditioned  
buildings.

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influenced the design  
strategies of  
modernist architects  
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and Climate explores  
how leading  
architects of the

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twentieth century  
incorporated climate-  
mediating strategies  
into their designs,  
and shows how  
regional approaches  
to climate  
adaptability were  
essential to the  
development of  
modern architecture.  
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period surrounding  
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fossil-fuel powered

air-conditioning

became widely

available—Daniel

Barber brings to light

a vibrant and

dynamic architectural

discussion involving

design, materials,

and shading systems

as means of interior

climate control. He

looks at projects by

well-known

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architects such as Richard Neutra, Le Corbusier, Lúcio Costa, Mies van der Rohe, and Skidmore, Owings, and Merrill, and the work of climate-focused architects such as MMM Roberto, Olgyay and Olgyay, and Cliff May.

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James Marston Fitch,  
Elizabeth Gordon,  
and others, he  
demonstrates how  
images and diagrams  
produced by  
architects helped  
conceptualize climate  
knowledge,  
alongside the work of  
meteorologists,  
physicists, engineers,  
and social scientists.  
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explains the ways

that structural

designers

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accommodate the impact of extreme wind events on the built environment. By studying the flow and pressure fields around buildings, architects and engineers can identify and select the best strategies for ensuring that a building will resist the loads due to high

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winds, maintaining pleasant conditions in outdoor spaces, assessing natural ventilation potential, and seeing that any exhaust fumes are dispersed adequately. This volume identifies wind characteristics and describes the effects of winds generated by

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tornadoes, and

thunderstorms. It

explains the internal

and external

pressures on a

building's cladding

(skin) and the effects

of wind-borne debris.

A building's response

to the structural

loads caused by wind

is outlined, along

with techniques for

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resisting wind. A chapter is devoted to wind tunnels and physical modeling to predict structural loads, cladding response, pedestrian experience, topographic effects, and snow deposition. A section of frequently asked questions, a glossary, and recommended

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Reading make this material in this volume accessible to students and nontechnical members of project teams. Structural engineers and architects will find this book a useful aide in explaining wind-related issues to clients, builders, building officials, and



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owners. Students in  
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architectural  
engineering will  
welcome the clear,  
concise presentation  
of an important  
component of  
structural design.

Natural ventilation is  
considered a  
prerequisite for  
sustainable buildings

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and is therefore in line with current trends in the construction industry. The design of naturally ventilated buildings is more difficult and carries greater risk than those that are mechanically ventilated. A successful result relies increasingly on

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a good understanding of the abilities and limitations of the

theoretical and

experimental

procedures that are used for design.

There are two ways to naturally ventilate a building: wind driven ventilation and stack ventilation.

The majority of

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buildings employing natural ventilation rely primarily on wind driven ventilation, but the most efficient design should implement both types. Natural Ventilation of Buildings: Theory, Measurement and Design comprehensively explains the

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fundamentals of the theory and measurement of natural ventilation, as well as the current state of knowledge and how this can be applied to design.

The book also describes the theoretical and experimental techniques to the practical problems

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and the associated

uncertainties. Key

features:

Comprehensive

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theory and

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the relevance and application of theoretical and experimental techniques to design  
Highlighting of the strengths and weaknesses of techniques and their errors and uncertainties  
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models, including  
CFD Two chapters  
dedicated to design  
procedures and  
another devoted to  
the basic principles of  
fluid mechanics that  
are relevant to  
ventilation This  
comprehensive  
account of the  
fundamentals for  
natural ventilation  
design will be



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postgraduates who  
wish to gain an  
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