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# **Understanding Designing Dedicated Outdoor Air**

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# **Systems Doas**

***Temperature and Humidity Independent Control (THIC) of Air-conditioning System focuses on temperature and humidity independent***

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***control (THIC) systems,  
which represents a new  
concept and new approach  
for indoor environmental  
control. This book presents  
the main components of  
the THIC systems, including***

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***dehumidification devices,  
high-temperature cooling  
devices and indoor terminal  
devices. Other relevant  
issues, such as operation  
and control strategy and  
case studies, are also***

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***included. This book is intended for air-conditioning system designers and engineers as well as researchers working with indoor environments. Xiaohua Liu is an associate***

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***professor at the Building  
Energy Research Center,  
Tsinghua University, China.  
Yi Jiang is a member of the  
Chinese Academy of  
Engineering, the director of  
the Building Energy***

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***Research Center, Tsinghua University, China and the director of the China-USA Joint Research Center on Clean Energy. Tao Zhang is a Ph.D. candidate at the Building Energy Research***

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**Center, Tsinghua  
University, China.  
The Fully Updated,  
Indispensible Study of  
Sustainable Design  
Principles Fundamentals of  
Integrated Design for**



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***Sustainable Building is the first textbook to merge principles, theory, and practice into an integrated workflow. This book introduces the technologies and processes of***

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***sustainable design and shows how to incorporate sustainable concepts at every design stage. This comprehensive primer takes an active learning approach that keeps***

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***students engaged. This book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design. This new second***

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***edition includes: Expansive knowledge—from history and philosophy to technology and practice Fully updated international codes, like the CAL code, and current legislations Up-***

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***to-date global practices,  
such as the tools used for  
Life-Cycle Assessment  
Thorough coverage of  
critical issues such as  
climate change, resiliency,  
health, and net zero energy***

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***building Extensive design  
problems, research  
exercise, study questions,  
team projects, and  
discussion questions that  
get students truly involved  
with the material***

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***Sustainable design is a responsible, forward-thinking method for building the best structure possible in the most efficient way. Conventional resources are depleting and***

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***building professionals are thinking farther ahead. This means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the***



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***concepts to stay relevant.  
Fundamentals of Integrated  
Design for Sustainable  
Building is the ideal primer,  
with complete coverage of  
the most up to date  
information.***

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***Air pollutants are continuously released from numerous sources into the atmosphere. Several studies have been carried out on the quantification of pollutants and their***

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***consequences on public health. Identification of the source characteristics of air pollution is an important step in the development of regional air quality control strategies. Air quality is a***

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***measure of the degree of ambient atmospheric pollution. Deterioration and damage to both public health and environment due to poor air quality have been recognized at a***

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***legislative and international level. In consequence, indoor and outdoor air quality must also be considered. This book tries to reveal different points of view of***

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***the wide concept of air quality in two different sections. In this context, there will be an initial introductory chapter on the main concepts of air quality, following which***

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***there will be real case studies on outdoor and indoor air quality with an aim to provide a guideline for future standards and research works.  
Synergistic Design of***

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***Sustainable Built  
Environments introduces  
and illustrates a novel  
systems approach that  
fosters both design  
excellence and a leap  
toward a more biocentric***



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***(ecologically sustainable)  
design paradigm. The book  
provides a deeper  
understanding of the  
theories and principles of  
biocentric design and offers  
detailed descriptions of the***

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***synergistic design process of integrating theories and principles into practice. It also presents extensive thermal and visual built environment design strategies, along with***

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***qualitative and quantitative information that designers can use to generate feasible solutions in response to varying climate and occupant comfort. Features: Examines the***

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***principles and practices of  
the synergistic design (a  
fusion of anthropocentric  
and biocentric) of  
sustainable built  
environments and how they  
relate to practical***

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***applications. Presents  
climatic data and its  
analysis along with sun-  
path diagrams for  
numerous cities to aid in  
the design of sustainable  
built environments in***

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***multiple regional contexts. Includes numerous case studies of sustainable built environments in varying climatic zones. Explains how renewable energy (solar, wind, biomass,***

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***geothermal, hydro, fuel cells) can be successfully integrated in the built environment. This forward-thinking and highly illustrated book will be an invaluable reference to all***

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***those concerned with  
sustainable built  
environments and related  
architectural issues.***

***Air Conditioning System  
Design***

***Net Zero Energy Design***



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***Mixed - Use Buildings  
Building Performance  
Simulation for Design and  
Operation  
Heating and Cooling of  
Buildings  
HVAC Commissioning***

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**Guidebook**

*Introductory technical guidance  
for professional engineers  
interested in design and  
construction of precision  
measurement laboratories. Here  
is what is discussed: 1.*

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***FUNCTIONAL REQUIREMENTS***

***2. GENERAL DESIGN CRITERIA***

***3. EXTERIOR DESIGN 4.***

***INTERIOR DESIGN AND***

***CONSTRUCTION 5. SITE DESIGN***

***AND ORGANIZATION 6.***

***ANTITERRORISM 7. SERVICES 8.***

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***SUSTAINABLE DESIGN 9.***

***SPECIFIC DESIGN CRITERIA.***

***This book is the result of recent research that deals with the built environment and innovative materials, carried out by specialists working in***

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***universities and centers of  
research in different professional  
fields [?] architecture,  
engineering, physics [?] and in an  
area that that spans from the  
Mediterranean Sea to the Persian  
Gulf, and from South Eastern***

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***Europe to the Middle East. This book takes the necessity of re-shaping the concept of building design in order to transform buildings from large scale energy consumers to energy savers and producers into***

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***consideration. The book is organized in two parts: theory and case studies. For the theoretical part, we chose from the wide range of sources that provide energy efficient materials and systems the two***

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***that seem to be endless: the sun and vegetation. Their use in building products represents a tool for specialists in the architectural design concept. The case-studies presented analyze different architectural***



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***programs, in different climates,  
from new buildings to  
rehabilitation approaches and  
from residential architecture to  
hospitals and sports arenas;  
each case emphasizes the  
interdisciplinarity of the building***

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***design activity in order to help  
readers gain a better  
understanding of the complex  
approach needed for energy  
efficient building design  
Green buildings have become  
common in India and other***

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***countries in Asia. However, there is a concern regarding the performance of green buildings failing to meet the expectations of clients during the operation. One of the key reasons for this is poorly commissioned HVAC***

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***systems. In this publication we provide tools and knowhow for more efficient HVAC commissioning. It gives answers for four major questions: why commissioning is needed, how to perform proper***

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***commissioning, which key performance issues of common HVAC equipment need to be considered, and what kind of checklists are used during commissioning? It covers the entire commissioning process***

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***beginning with the owner's project requirements and commissioning design reviews. Then, it explains procedures during installation and start-up of equipment followed by the functional performance testing,***

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***seasonal commissioning and 10  
months' operation review. This  
publication is developed by  
Indian Society of Heating,  
Refrigeration and Air  
Conditioning Engineers ISHRAE  
for Indian and Asian***

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***requirements in conjunction with  
the Federation of European  
HVAC Associations REHVA. The  
process steps described in this  
publication are in line with all  
major international building  
standards and green building***



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***certification schemes. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.***

***This comprehensive handbook is recognized as the definitive***

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***stand-alone energy manager's desk reference, used by tens of thousands of professionals throughout the energy management industry. This new ninth edition includes new chapters on energy management***

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***controls systems, compressed air systems, renewable energy, and carbon reduction. There are major updates to chapters on energy auditing, lighting systems, boilers and fired systems, steam and condensate***

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***systems, green buildings waste heat recovery, indoor air quality, utility rates, natural gas purchasing, commissioning, financing and performance contracting and much more with numerous new and updated***

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*illustrations, charts, calculation  
procedures and other helpful  
working aids.*

*Libraries: A Design Manual  
Energy Management Handbook  
ASHRAE Design Guide for  
Dedicated Outdoor Air Systems*

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***Routledge Handbook of Resilient  
Thermal Comfort  
Energy Efficient Building Design  
Analysis and Design***

Analysis and Design of Heating,  
Ventilating, and Air-Conditioning  
Systems, Second Edition,

## Read Free Understanding Designing Dedicated Outdoor Air Systems Doas

provides a thorough and modern overview of HVAC for commercial and industrial buildings, emphasizing energy efficiency. This text combines coverage of heating and air conditioning systems design with

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detailed information on the latest controls technologies. It also addresses the art of HVAC design along with carefully explained scientific and technical content, reflecting the extensive experience of the authors.



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Modern HVAC topics are addressed, including sustainability, IAQ, water treatment and risk management, vibration and noise mitigation, and maintainability from a practical point of view.

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"This book represents the most complete guidance on the design, installation, and operation and management of DOAS in nonresidential applications. With this book, any HVAC designer will be able to

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optimally incorporate a DOAS into their design. Architectural designers, building developers and owners, maintenance professionals, students, teachers, and researchers may also find the contents useful"--

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This book presents the necessary fundamental knowledge in the research, development, design, selection, and application of desiccant heating, ventilating, and air-conditioning systems. It covers

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the established installations in different climatic conditions and building types. In addition, advanced performance evaluation techniques are presented, covering thermodynamic, economic, and

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environmental aspects. Hence, the book is an important resource for undergraduate and graduate students, design and installation engineers, researchers and scientists, building owners and occupants,

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and energy and environmental policy makers.

The definitive guide to the design of environmental control systems for buildings—now updated in its 13th Edition Mechanical and Electrical Equipment for

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Buildings is the most widely used text on the design of environmental control systems for buildings—helping students of architecture, architectural engineering, and construction understand what they need to



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know about building systems and controlling a building's environment. With over 2,200 drawings and photographs, this 13th Edition covers basic theory, preliminary building design guidelines, and detailed design

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procedure for buildings of all sizes. It also provides information on the latest technologies, emerging design trends, and updated codes. Presented in nine parts, Mechanical and Electrical

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Equipment for Buildings,  
Thirteenth Edition offers readers  
comprehensive coverage of:  
environmental resources; air  
quality; thermal, visual, and  
acoustic comfort; passive  
heating and cooling; water

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design and supply; daylighting and electric lighting; liquid and solid waste; and building noise control. This book also presents the latest information on fire protection, electrical systems; and elevator and escalator

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systems. This Thirteenth Edition features: Over 2,200 illustrations, with 200 new photographs and illustrations All-new coverage of high-performance building design Thoroughly revised references to codes and

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standards: ASHRAE, IES,  
USGBC (LEED), Living Building  
Challenge, WELL Building  
Standard, and more Updated  
offering of best-in-class ancillary  
materials for students and  
instructors available via the

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book's companion website  
Architect Registration  
Examination® (ARE®) style  
study questions available in the  
instructor's manual and student  
guide Mechanical and Electrical  
Equipment for Buildings, has

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been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years. This Thirteenth Edition has evolved to reflect the ever-growing complexities of building design,



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and has maintained its relevance by allowing for the conversation to include "why" as well as "how to."

Saving Run-the-Engine Costs  
Chemistry, Emission Control,  
Radioactive Pollution and Indoor

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Air Quality

The Performance of Architecture  
An Essential Guide for  
Sustainable Building  
Mechanical and Electrical  
Equipment for Buildings  
Concepts, Frameworks and

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Roadmap for Project Analysis  
and Implementation

Written by an architect who is  
director of sustainability at a  
global architecture firm, this is a  
guide for architects and related  
construction professionals to

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design and build net zero commercial architecture. It offers practical strategies, step-by-step technical analysis, and valuable examples in addition to developed case studies. With a focus on application in a variety of building

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types and scales, the book also develops a broad based understanding of all the integrated principles involved in achieving net zero energy. The book is a practical guide for anyone venturing into net zero

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energy design, construction and operation, and also serves as an excellent resource on a variety of sustainable design topics.

Fusion: The Performance of Architecture explores the work of award-winning, Boston-based

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architecture firm Payette, a leader in the design of complex settings for science and healthcare.

Payette's work embodies the integration of design and performance that is essential to the creation of humane and

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sustainable buildings of any type. To achieve this integration amidst the programmatic intricacy, technological complexity, and intense energy use of hospitals and laboratories, the firm draws on its almost ninety-year history of



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progressive innovation. It draws, as well, on an inclusive, collaborative, research-oriented culture that is a model for the profession. Fusion presents Payette's philosophy and traces the firm's contributions through

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concise histories of laboratory and hospital design. It explores the core principles that underlie its work—Identity and Transformation, Materiality and Craft, Taming Complexity and Measuring Performance—and digs

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deeply into seven of the firm's most recent projects. Other chapters describe the process of nurturing the design excellence and practice culture that earned Payette the 2019 AIA Architecture Firm Award. The monograph's

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400 diagrams, drawings, and photographs reveal the firm's principles and methods, along with the open-source tools it has developed to enable it to design, not "by the numbers," but with the numbers. A gallery of

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architectural “fingerprints”  
presents plan views of more than  
100 of Payette’s projects, drawn  
to a common scale. With a preface  
by Z Smith, Director of  
Sustainability and Building  
Performance at

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EskewDumezRipple, and an introduction from Kevin Sullivan, President of Payette, Fusion includes essays by Sullivan and partners James Collins, George Marsh, Leon Drachman, Andrea Love and Peter Vieira, as well as a

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critical reflection by Mark Lee,  
Chair of the Department of  
Architecture at the Harvard  
Graduate School of Design.  
High Performance Buildings: A  
Guide for Owners and Managers,  
is a template - a blueprint for

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action for those making decisions about how to improve the energy efficiency and performance of new or existing buildings. It is designed to have broad appeal, both for the seasoned veteran facility or energy manager and for



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the new manager alike, but can also be utilized as a practical desk reference by professionals such as architects, engineers, and construction managers. The full spectrum of topics relevant to achieving optimum building

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performance is addressed, including analysis of overall building energy use and performance, building commissioning, applicable codes, standards and rating systems, building envelope, onsite power

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generating options, optimizing performance of building mechanical and electrical equipment, and importance of effective building operation and maintenance practices.

Fundamental principles are

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discussed and illustrated with case studies.

In the Design Professional's Guide to Zero Net Energy Buildings, Charles Eley draws from over 40 years of his own experience, and interviews with other industry

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experts, to lay out the principles for achieving zero net energy (ZNE) buildings, which produce as much energy as they use over the course of a year. Eley emphasizes the importance of building energy use in achieving a sustainable

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future; describes how building energy use can be minimized through smart design and energy efficiency technologies; and presents practical information on how to incorporate renewable energy technologies to meet the

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lowered energy needs. The book shows the reader through examples and explanations that these solutions are viable and cost effective.

High Performance Buildings: A  
Guide for Owners & Managers

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New Directions in Sustainable  
Design

Advances in Design, Simulation  
and Manufacturing III

Building Systems in Interior  
Design

Geothermal Heat Pump and Heat



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Engine Systems

Temperature and Humidity

Independent Control (THIC) of Air-  
conditioning System

*Industrial Ventilation Design*

*Guidebook, Volume 2:*

*Engineering Design and*

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*Applications brings together researchers, engineers (both design and plants), and scientists to develop a fundamental scientific understanding of ventilation to help engineers implement state-of-the-art*

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*ventilation and contaminant control technology. Now in two volumes, this reference contains extensive revisions and updates as well as a unique section on best practices for the following industrial sectors: Automotive;*

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*Cement; Biomass Gasifiers;  
Advanced Manufacturing;  
Industrial 4.0); Non-ferrous  
Smelters; Lime Kilns; Pulp and  
Paper; Semiconductor Industry;  
Steelmaking; Mining. Brings  
together global researchers and*

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*engineers to solve complex  
ventilation and contaminant  
control problems using state-of-  
the-art design equations Includes  
an expanded section on  
modeling and its practical  
applications based on recent*

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*advances in research Features a  
new chapter on best practices for  
specific industrial sectors*

*This book presents 18 in-depth  
case studies of net zero energy  
buildings—low-energy building  
that generate as much energy as*

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*they consume over the course of a year—for a range of project types, sizes, and U.S. climate zones. Each case study describes the owner's goals, the design and construction process, design strategies, measurement*

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*and verification activities and results, and project costs. With a year or more of post-occupancy performance data and other project information, as well as lessons learned by project owners and developers,*



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*architects, engineers, energy modelers, constructors, and operators, each case study answers the questions: What were the challenges to achieving net zero energy performance, and how were these challenges*

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*overcome? How would stakeholders address these issues on future projects? Are the occupants satisfied with the building? Do they find it comfortable? Is it easy to operate? How can other projects*

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*benefit from the lessons learned on each project? What would the owners, designers, and constructors do differently knowing what they know now? A final chapter aggregates processes to engage in and*

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*pitfalls to avoid when  
approaching the challenges  
peculiar to designing,  
constructing, and owning a net  
zero energy building. By  
providing a wealth of comparable  
information, this book which will*

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*flatten the learning curve for  
designing, constructing, and  
owning this emerging building  
type and improve the  
effectiveness of architectural  
design and construction.*

*A unique approach to the study of*

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*geothermal energy systems This book takes a unique, holistic approach to the interdisciplinary study of geothermal energy systems, combining low, medium, and high temperature applications into a logical order.*

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*The emphasis is on the concept that all geothermal projects contain common elements of a "thermal energy reservoir" that must be properly designed and managed. The book is organized into four sections that examine*

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*geothermal systems: energy utilization from resource and site characterization; energy harnessing; energy conversion (heat pumps, direct uses, and heat engines); and energy distribution and uses. Examples*



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*are provided to highlight fundamental concepts, in addition to more complex system design and simulation. Key features: Companion website containing software tools for application of fundamental principles and*

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*solutions to real-world problems.  
Balance of theory, fundamental  
principles, and practical  
application. Interdisciplinary  
treatment of the subject matter.  
Geothermal Heat Pump & Heat  
Engine Systems: Theory and*

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*Practice is a unique textbook for Energy Engineering and Mechanical Engineering students as well as practicing engineers who are involved with low-enthalpy geothermal energy systems.*

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*When used appropriately,  
building performance simulation  
has the potential to reduce the  
environmental impact of the built  
environment, to improve indoor  
quality and productivity, as well  
as to facilitate future innovation*

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*and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has shifted from a focus on software features to a*

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*new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview of building performance simulation*

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*for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information modelling, occupant behaviour modelling,*

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*urban physics modelling, urban building energy modelling and renewable energy systems modelling. This new edition keeps the same chapter structure throughout including learning objectives, chapter summaries*



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*and assignments. Moreover, the book:*

- Provides unique insights into the techniques of building performance modelling and simulation and their application to performance-based design and operation of buildings and the*

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*systems which service them. • Provides readers with the essential concepts of computational support of performance-based design and operation. • Provides examples of how to use building simulation*

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*techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for building and systems designers and operators, and postgraduate architectural, environmental or*

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*mechanical engineering students.  
Bringing Thermoelectricity into  
Reality  
Fundamentals of Integrated  
Design for Sustainable Building  
Analysis and Design of Heating,  
Ventilating, and Air-Conditioning*

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*Systems, Second Edition*

*Air-conditioning System Design  
Manual*

*A Guide to Preparing for the U.S.  
Green Building Council's  
Leadership in Energy and  
Environmental Design (LEED)*

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*Professional Accreditation Exam  
Volume 2: Engineering Design  
and Applications*

***The disproportionate use of fossil fuels has turned into a serious environmental issue. Thus, we are encountering one of the***

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***biggest challenges of the twenty-first century, satisfying the energy demand with respect to the environment.***

***Thermoelectricity is an emerging technology, which contributes to reducing the impact of the use of traditional technologies,***

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*harvesting the waste heat, and eliminating the use of refrigerants. The book Bringing Thermoelectricity into Reality covers the current thermoelectric investigations: the study of novel thermoelectric materials, the development of computational*



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***models, the design of proper assemblies, and the optimization of thermal designs, as well as novel thermoelectric generators, coolers, and heating applications. This book looks for the definitive thermoelectric applications applied to everyday life.***

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***Retail, restaurants, offices, hotel, residential, conference and exhibition centers, and parking are typically being built as part of one large complex. Increasing complexities occur as more and more various types of occupancies are combined into***

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***the same buildings. A rapidly developing trend is a desire for mixed-use spaces to support lifestyle activities. An increasing number of people are working from home, so they need flexible mixed-use spaces that can accommodate their lifestyle.***

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***People are on the lookout for more luxury amenities, such as full fitness and yoga studios, conference centers with commercial kitchens, rooftop pools and spas, and lobby bars and coffee shops. This Technical Standards and Design Guidelines***

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***(TSDGs) contains information intended as minimum standards for constructing and equipping new Mixed Use Building projects. Insofar as practical, these standards relate to desired performance or results or both. Details of Architectural and***

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***Engineering are assumed to be part of good design practice and local building regulations. This document covers mixed-use building facilities common to a multitude of individual facilities. Facilities with unique services will require special consideration.***

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***However, sections herein may be applicable for parts of any facility and may be used where appropriate. The Property Developer will supply for each project a functional program for the facility that describes the purpose of the project, the***

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***projected demand or utilization.  
The TSDG includes a description  
of each function or service; the  
operational space required for  
each function; the types of all  
spaces; the special design  
features; the systems of  
operation; and the***



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***interrelationships of various functions and spaces. The functional program includes a description of those services necessary for the complete operation of the facility. The functional programs could be applied in the development of***

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***project design and construction documents. These standards assume that appropriate architectural, engineering and technology practices and compliance with applicable codes will be observed as part of normal professional service and require***

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***no separate detailed instructions. Specialist designers adopting the TSDGs are encouraged to apply design innovations and the property developer to grant exceptions where the intent of the standards is met.***

***Sustainability and Energy***

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***Conservation Energy efficiency being a part of the building code requirement in many states, the trend is moving toward achieving it. Higher-performing building envelopes and higher-performing HVAC and lighting systems are some of the essential components***

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***to meet current energy codes.  
The importance of Environmental  
Sustainability and Energy  
Conservation is fully considered  
in all phases of facility design  
development. Proper planning  
and selection of building  
materials, mechanical and***

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***electrical systems, as well as efficient utilization of space and climatic characteristics that will significantly reduce overall energy consumption are fully described. The quality of the building facility environment is undoubtedly supportive of the***

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***occupants and functions served. New and innovative systems that accommodate these considerations while preserving cost effectiveness has been encouraged. Architectural elements that reduce energy consumption are considered part***

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***of the TSDG. In addition to Energy Conservation, buildings will be designed to minimize water consumption and operating costs without reducing occupancy standards, occupant health safety or comfort. Water conservation measures such as water-recycling***



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***including gray water and rain water collection, water purification, and sewerage recycling are included for consideration and recommendation in the project specific building energy brief. The integration of innovative***

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***water efficiency measures, such as storm water management, rainfall capture, treated effluent reuse, roof gardens and other alternative sources of water supply are fully described. Technology In todays ever-changing environment,***

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***technological standardization and integration of systems is essential. Technology is viewed as a competitive tool that contributes to the improvement of building occupant services and operating efficiencies. As the importance of access to***

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***information increases, so do customer demands for such services. The Intelligent Buildings Market is a rapidly evolving segment that is being influenced by a number of emerging trends. Mobile communications connect people***

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***to work, entertainment and each other in ways that boost productivity and enhance lives. Both Operational Technology (OT) and Informational Technology (IT) have entirely changed, and it will change even more as we get deeper into the***

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***Internet of Things (IOT). In-Building Wireless (IBW) communications provide the critical link to enable the use of cell phones, pagers, PDAs, two-way radios, wireless LANs, emergency communications and wireless building system devices***

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***within an enclosed structure. The technology disciplines (telecom, security, building automation, and lighting) have been going through a convergence over the past several years, with telecom wired and wireless networks becoming the common utility for***

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***all the technology disciplines.  
This book addresses some of the  
countless challenges faced by  
developing countries when  
adopting sustainable design and  
construction and offers  
suggestions for the way forward  
for African development projects.***



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***The authors argue that the pervasive non-consideration of the interrelationship between the elements of sustainable design and construction is the reason for the current failures in sustainable design and construction in developed***

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***countries. By treating sustainability as a complex system, the authors provide the missing link between the design and construction of projects in a sustainable way with a view to improving industry and project performance. In doing so the***

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***book posits the need for improved sustainability practice in developing countries, lessons for developing countries from the successes and failures of sustainability adoption by developed nations, factors influencing adoption of***

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***sustainability and effects of  
sustainable designs and  
construction on productivity,  
human health and the  
environment at large. This book  
will be of interest to construction  
researchers, practitioners,  
professional bodies, housing***

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***policy makers and government institutions as well as training and funding providers in these areas.***

***The Air Conditioning Manual assists entry-level engineers in the design of air-conditioning systems. It is also usable - in***

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***conjunction with fundamental HVAC&R resource material - as a senior- or graduate-level text for a university course in HVAC system design. The manual was written to fill the void between theory and practice - to bridge the gap between real-world***

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***design practices and the theoretical calculations and analytical procedures or on the design of components. This second edition represents an update and revision of the manual. It now features the use of SI units throughout, updated***

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***references and the editing of many illustrations. \* Helps engineers quickly come up with a design solution to a required air conditioning system. \* Includes issues from comfort to cooling load calculations. \* New sections on "Green HVAC" systems deal***



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***with hot topic of sustainable  
buildings.***

***Principles and Practice of Energy  
Efficient Design, Third Edition  
Design Professional's Guide to  
Zero Net Energy Buildings  
Energy-Efficient HVAC Design  
A Guide for Commercial***

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**Architecture**

***Desiccant Heating, Ventilating,  
and Air-Conditioning Systems  
Fusion***

Building Systems in Interior  
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that are critical to those features of technical systems that most directly affect design. The book stresses the ever-present nature of these systems: they are everywhere, all the time. Taking a design

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oriented view, it outlines what can and cannot be done, and provides the student with the know-how and confidence to defend and promote their design intent when working with other industry professionals. Covering

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lighting, HVAC, plumbing and much more, the book is packed with key features to aid learning including: Numerous illustrations, plans and photographs Key terms defined in an extensive glossary

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Chapter introductions that identify key concepts and chapter summaries to re-visit those key concepts Professional design tips And a detailed bibliography and web links This book is not only a core text for

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interior design, building systems engineering and architecture students but will become an essential working reference through their careers. This book explores topics at the interface between mechanical



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and chemical engineering, with a focus on design, simulation, and manufacturing. Covering recent developments in the mechanics of solids and structures; numerical simulation of coupled problems, including wearing,

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compression, detonation and collision; and chemical process technologies, including ultrasonic technology, capillary rising process, pneumatic classification, membrane electrolysis and absorption

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processes, it reports on developments in the field of heat and mass transfer, energy-efficient technologies, and industrial ecology. Part of a two-volume set based on the 3rd International Conference on

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Design, Simulation,  
Manufacturing: The Innovation  
Exchange (DSMIE-2020), held  
on June 9-12, 2020, in Kharkiv,  
Ukraine, this book provides  
academics and professionals  
with extensive information on

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the latest trends, technologies and challenges in the field as well as practical lessons learned.

This book brings together some of the finest academics in the field to address important

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questions around the way in which people experience their physical environments, including temperature, light, air-quality, acoustics and so forth. It is of importance not only to the comfort people feel indoors, but

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also the success of any building as an environment for its stated purpose. The way in which comfort is produced and perceived has a profound effect on the energy use of a building and its resilience to the

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increasing dangers posed by extreme weather events, and power outages caused by climate change. Research on thermal comfort is particularly important not only for the health and well-being of occupants but



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because energy used for temperature control is responsible for a large part of the total energy budget of the built environment. In recent years there has been an increasing focus on the

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vulnerabilities of the thermal comfort system; how and why are buildings failing to provide safe and agreeable thermal environments at an affordable price? Achieving comfort in buildings is a complex subject

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that involves physics, behaviour, physiology, energy conservation, climate change, and of course architecture and urban design. Bringing together the related disciplines in one volume lays strong, multi-

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disciplinary foundations for new research and design directions for resilient 21st century architecture. This book heralds workable solutions and emerging directions for key fields in building the resilience

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of households, organisations and populations in a heating world. Libraries as a building type have been subjected to substantial changes in particular in the past ten years. Milestones such as Rem

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Koolhaas' Seattle Central Library from 2004 reinvented the typology completely and reflected a development from elitist temple of learning to a public living room. Hybrids between library and department

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store or theater were conceived. Today, the ubiquity of electronic devices and media needs to be taken into account by the designer: every new library has areas without any books now. This work of

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reference explains systematically all technological and planning requirements of library design. Special features such as RFID, signage, acoustics or specific structural load issues are explained in



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texts by experts from the fields of architecture and library science. Finally, approximately 40 best-practice case studies of contemporary library design are documented extensively. They are organized in four categories

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– national libraries, large public libraries, small public libraries, university libraries – and comprise high-profile examples such as Jo Coenen ' s Openbare Bibliotheek Amsterdam, Alvaro Siza ' s Public Library Viana do

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Castelo in Portugal or  
Mecanoo ' s Library of  
Birmingham from 2013.  
Designing Green Networks and  
Network Operations  
Sustainable Design and  
Construction in Africa

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An Introduction to Precision  
Measurement Laboratories  
Industrial Ventilation Design  
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Net Zero Energy Buildings  
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**technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings. Along with numerous new and revised examples, design case**

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**planning. Based around current codes and standards, the Third Edition explores the latest technologies that are central to design and operation of today's buildings. It serves as an up-to-date**



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**technical resource for future designers, practitioners, and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of**

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**their occupants. For  
engineering and architecture  
students in  
undergraduate/graduate  
classes, this comprehensive  
textbook:**

**Air Conditioning System**

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**Design summarizes essential theory and then explains how the latest air conditioning technology operates. Load calculations, energy efficiency, and selection of technology are all explained in**

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**the context of air conditioning as a system, helping the reader fully consider the implications of design decisions. Whether users need to figure out how to apply their mechanical**

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**engineering degree to an air conditioning design task or simply want to find out more about air conditioning technology for a research project, this book provides a perfect guide. Approaches air**

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**conditioning as a system, not just a collection of machines Covers the essential theory on fluid flow and the latest in A/C technology in a very readable and easy-to-use style Explains the significance of factors,**

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**such as climate and thermal  
comfort as A/C design  
considerations Addresses  
design using a range of air  
conditioning technologies,  
such as evaporative cooling,  
VRF systems, psychromatic**

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**software, and dessicant  
dehumidification**

**This book brings together new  
and emerging perspectives on  
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**established practitioners of sustainable design, it develops a coherent theoretical framework for how a philosophy of sustainability might engage with the growing practice of**

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**sustainable design.**

**This book provides readers  
with essential knowledge  
enabling the successful  
design of today's new energy  
efficient HVAC systems. The  
author introduces important**

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**concepts such as Knowledge  
Categorization, Performance  
Based Design Standards, and  
Quantification of Uncertainty  
in Energy Modeling for  
Buildings. Pivotal topics that  
all HVAC and architectural**

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**engineers must master in order to navigate the green building renaissance are given focused attention, including the role of renewables, air quality, automatic controls, and**

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**thermal comfort. Relevant  
ASHRAE standards, as well as  
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**reference, students and  
practitioners alike will become  
more effective and prepared  
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Synergistic Design of  
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equations Comprehensive step-by-step  
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Net Zero Energy Buildings (NZEB):  
Concepts, Frameworks and Roadmap  
for Project Analysis and  
Implementation provides readers with

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the elements they need to understand, combine and contextualize design decisions on Net Zero Energy Buildings. The book is based on learned lessons from NZEB design, construction, operation that are integrated to bring the most relevant

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topics, such as multidisciplinary, climate sensitivity, comfort requirements, carbon footprints, construction quality and evidence-based design. Chapters introduce the context of high performance buildings, present overviews of NZEB, cover the



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performance thresholds for efficient buildings, cover materials, micro-grid and smart grids, construction quality, performance monitoring, post occupancy evaluation, and more.

Offers a roadmap for engaging in energy efficiency in high performance

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buildings projects Combines solid  
grounding in core concepts, such as  
energy efficiency, with a wider context  
that includes the technical, socio-  
cultural and environmental dimensions  
Covers key areas for decision-making  
Provides a logical framework to

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analyze projects in the context of environmental change Presents worldwide examples and cases for different climates and societies In recent years, socio-political trends toward environmental responsibility and the pressing need to reduce Run-

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the-Engine (RTE) costs have resulted in the concept of Green IT. Although a significant amount of energy is used to operate routing, switching, and transmission equipment, comparatively less attention has been paid to Green Networking. A

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Based on the most recent standards from ASHRAE, the sixth edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning. The latest load calculation procedures, indoor air quality procedures, and

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issues related to ozone depletion are covered. New to this edition is the inclusion of additional realistic, interactive and in-depth examples available on the book website ([www.wiley.com/college/mcquiston](http://www.wiley.com/college/mcquiston)) that enable students to simulate various

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scenarios to apply concepts from the text. Also integrated throughout the text are numerous worked examples that clearly show students how to apply the concepts in realistic scenarios. The sixth edition has also been revised to be more accessible to students for easier

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comprehension. Suitable for one or two semester, Junior/Senior/Graduate course in HVAC taught in Mechanical Engineering, Architectural Engineering, and Mechanical Engineering Technology departments. Net Zero Energy Buildings (NZEB)



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Healthcare Facilities

Environmental Health Perspectives  
Theory And Practice

Case Studies and Lessons Learned

Indoor and Outdoor Air Pollution

The atmosphere may be our most

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precious resource. Accordingly, the balance between its use and protection is a high priority for our civilization. While many of us would consider air pollution to be an issue that the modern world has resolved to a greater extent, it still appears to have

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considerable influence on the global environment. In many countries with ambitious economic growth targets the acceptable levels of air pollution have been transgressed. Serious respiratory disease related problems have been identified with both indoor and

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outdoor pollution throughout the world. The 25 chapters of this book deal with several air pollution issues grouped into the following sections: a) air pollution chemistry; b) air pollutant emission control; c) radioactive pollution and d) indoor air quality.

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