

Ventilation and ductwork

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Gina Barney,Lutfi Al-Sharif



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Metric Handbook Pamela Buxton, 2018-02-23 Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100 000 copies sold to successive generations of architects and designers This book belongs in every design office The Metric Handbook is the major handbook of planning and design data for architects and architecture students Covering basic design data for all the major building types it is the ideal starting point for any project For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook is the unique reference for solving everyday planning problems *A Guide to Energy Management in Buildings* Douglas Harris, 2016-11-29 This new edition of *A Guide to Energy Management in Buildings* begins by asking why we need to control energy use in buildings and proceeds to discuss how the energy consumption of a building can be assessed or estimated through an energy audit It then details a range of interventions to reduce energy use and outlines methods of assessing the cost effectiveness of such measures Topics covered include where and how energy is used in buildings energy audits measuring and monitoring energy use techniques for reducing energy use in buildings legislative issues And new in this edition the cooling of buildings fuel costs and smart metering and education and professional recognition It provides a template for instigating the energy management process within an organization as well as guidance on management issues such as employee motivation and gives practical details on how to carry the process through This book should appeal to building and facilities managers and also to students of energy management modules in FE and HE courses *Attachment Ventilation Theory* Angui Li, 2023-05-02 This open access book systematically summarizes the current research progress of attachment ventilation covering vertical wall attachment column attachment and adaptive attachment ventilation Attachment ventilation is a high performance ventilation mode that was first proposed by the author Prof Angui Li 20 years ago Now it has been widely used in office spaces subway stations high speed railway stations international airport terminals and other large spaces This book introduces attachment ventilation in detail to eliminate the cooling heating load of the occupied zone and provide an expected environment for the air conditioned zone Attachment ventilation combines the advantages of traditional mixed ventilation and displacement ventilation This book consists of six chapters covering a series of airflow patterns mechanisms parameter correlations and attachment ventilation design methods It is helpful for HVAC engineers to design attachment ventilation effectively **Designing Zero Carbon Buildings** Ljubomir Jankovic, 2024-06-17 In this significantly revised third edition *Designing Zero Carbon Buildings* combines embodied and operational emissions into a structured approach for achieving zero emissions by a specific year with certainty

Simulation and quantitative methods are introduced in parallel with analogue scale models to demonstrate how things work in buildings Where equations are provided this is also explained with common analogue objects pictures and narratives A Zero Equation introduced in this book is not only explained as an equation but also as an analogy with a jam jar and spoons making the book accessible for a range of audiences Tasks for simple experiments exercises discussion questions and summaries of design principles are provided in closing lines of chapters This book introduces new case studies in addition to an updated case study of the Birmingham Zero Carbon House applying embodied and operational emissions to assess their status using the Zero Equation The approach introduced brings about a sense of realism into what true zero emissions mean Written for students educators architects engineers modellers practising designers sustainability consultants and others it is a major positive step towards design thinking that makes achieving zero carbon emissions a reality

The Passivhaus Designer's Manual Christina Hopfe, Robert McLeod, 2015-10-05 Passivhaus is the fastest growing energy performance standard in the world with almost 50 000 buildings realised to date Applicable to both domestic and non domestic building types the strength of Passivhaus lies in the simplicity of the concept As European and global energy directives move ever closer towards Zero fossil Energy standards Passivhaus provides a robust fabric first approach from which to make the next step The Passivhaus Designers Manual is the most comprehensive technical guide available to those wishing to design and build Passivhaus and Zero Energy Buildings As a technical reference for architects engineers and construction professionals The Passivhaus Designers Manual provides State of the art guidance for anyone designing or working on a Passivhaus project In depth information on building services including high performance ventilation systems and ultra low energy heating and cooling systems Holistic design guidance encompassing daylight design ecological materials thermal comfort indoor air quality and economics Practical advice on procurement methods project management and quality assurance Renewable energy systems suitable for Passivhaus and Zero Energy Buildings Practical case studies from the UK USA and Germany amongst others Detailed worked examples to show you how it s done and what to look out for Expert advice from 20 world renowned Passivhaus designers architects building physicists and engineers Lavishly illustrated with nearly 200 full colour illustrations and presented by two highly experienced specialists this is your one stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings

BUID Doctoral Research Conference 2023 Khalid Al Marri, Farzana Asad Mir, Solomon Arulraj David, Mostafa Al-Emran, 2024-03-28 This open access book presents selected contributions on a wide range of scientific and technological areas originating from the BUID Doctoral Research Conference BDRC 2023 It discusses the following topics project management macroeconomic factors Fourth Industrial Revolution agility multiculturalism diversity inclusion leadership language discourse analysis curriculum critical thinking programming online learning and natural ventilation The contributions reflect the multifaceted nature of the research in three academic disciplines i e humanities formal science and applied science This publication shares with its readers genuine research

studies and reflections from practitioners on the current practice and understanding in the three academic disciplines The significant findings of these studies have considerable educational industrial and economic implications This is an open access book *Principle, Design and Optimization of Air Balancing Methods for the Multi-zone Ventilation Systems in Low Carbon Green Buildings* Xin Zhang,Can Cui,Wen-Jian Cai,Hui Cai,Gang Jing,2022-10-17 This book presents a systematic study on the air balancing technologies in heating ventilation and air conditioning HVAC systems Several modern air balancing methods including advanced control based air balancing data driven based air balancing and energy saving oriented air balancing are introduced in this book to balance the air duct system Furthermore this book provides clear instructions for both HVAC designers and engineers as well as researchers on how to design and balance duct systems for improved performance and energy efficiency **Air Conditioning System Design** Roger Legg,2017-06-15 Air Conditioning System 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 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 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 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 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 software and dessicant dehumidification Running Buildings on Natural Energy Sue Roaf,Fergus Nicol,2018-12-07 New thinking is essential if we are to design and occupy buildings that can keep us safe with unpredictable economies climates energy systems and resource challenges For too long designers have relied on mechanical solutions for heating cooling and ventilating buildings The 21st century dream has to be of a better architecture that enables buildings to be run for as much of a day or year as possible on local clean reliable affordable natural energy Examples are included from different climates where the fundamental building design is right its orientation opening sizes mass and its natural ventilation systems and pathways Many modern buildings are poorly designed for climate as manifested by growing incidences of overheating experienced indoor explored here The inability of many rating systems to record and improve the climatic design of buildings raises questions about how they deal with issues of basic building performance This books points the way towards how we can understand such problems and move forward from over mechanised poorly designed buildings to a new generation of adaptable buildings designed and refurbished to run largely on natural energy and capable of evolving over time to keep their occupants safe and comfortable even in a warming world The chapters were originally published in Architectural Science Review *Sustainable Construction Processes* Steve Goodhew,2016-04-13 This book explores the concepts and

practicalities that lead to sustainable construction It breaks new ground by providing the reader with the underlying principles of how to build sustainably and then assesses many of the tools required for the task From energy to materials and from procurement to operation all aspects play their part in turning a theoretically sustainable building project into a reality There are many guidelines for the designer on how to maximise the sustainability of buildings but this resource text supplements these by focusing on the construction and operational aspects of sustainable buildings as well as some of the more fundamental design related considerations Offers an excellent text for those learning to construct design and operate sustainable buildings Covers the drivers for sustainable construction definitions historical impacts climate change and global regional and individual responses enables the construction professional to achieve optimum solutions both in design process and the aftercare of buildings evaluates the effectiveness of different renewable technologies and provides guidance on the practicalities of their use Alerts the reader to future trends in this field

Building Performance Analysis Pieter de Wilde, 2018-05-31 Explores and brings together the existent body of knowledge on building performance analysis Shortlisted in the CIBSE 2020 Building Performance Awards Building performance is an important yet surprisingly complex concept This book presents a comprehensive and systematic overview of the subject It provides a working definition of building performance and an in depth discussion of the role building performance plays throughout the building life cycle The book also explores the perspectives of various stakeholders the functions of buildings performance requirements performance quantification both predicted and measured criteria for success and the challenges of using performance analysis in practice Building Performance Analysis starts by introducing the subject of building performance its key terms definitions history and challenges It then develops a theoretical foundation for the subject explores the complexity of performance assessment and the way that performance analysis impacts on actual buildings In doing so it attempts to answer the following questions What is building performance How can building performance be measured and analyzed How does the analysis of building performance guide the improvement of buildings And what can the building domain learn from the way performance is handled in other disciplines Assembles the current body of knowledge on building performance analysis in one unique resource Offers deep insights into the complexity of using building performance analysis throughout the entire building life cycle including design operation and management Contributes an emergent theory of building performance and its analysis Building Performance Analysis will appeal to the building science community both from industry and academia It specifically targets advanced students in architectural engineering building services design building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders

People Flow in Buildings Marja-Liisa Siikonen, 2021-10-04 Discover how to measure control model and plan people flow within modern buildings with this one stop resource from a leading professional People Flow in Buildings delivers a comprehensive and insightful description of people flow analysis with software based tools The book offers readers an up to date overview of mathematical

optimization methods used in control systems and transportation planning methods used to manage vertical and horizontal transportation The text offers a starting point for selecting the optimal transportation equipment for new buildings and those being modernized It provides insight into making passenger journeys pleasant and smooth while providing readers with an examination of how modern trends in building usage like increasingly tall buildings and COVID 19 effect people flow planning in buildings People Flow in Buildings clearly defines the terms and symbols it includes and then moves on to deal with the measurement control modelling and planning of people flow within buildings of all kinds Each chapter contains an introduction describing its contents and the background of the subject Included appendices describe measured passenger data and performed analyses Readers will also benefit from the inclusion of A thorough introduction to people counting methods including counting technology inside and outside buildings passenger traffic components and manual people counting An examination of the passenger arrival process in building including the Poisson arrival process and probability density function and passenger arrivals in batches A consideration of daily vertical passenger traffic profiles including two way traffic profiles and the effects of inter floor traffic An exploration of people flow solutions including stairs escalators and elevators with collective and destination group control systems as well as double deck and multicar system People flow calculation and simulation models Elevator planning with ISO simulation method Elevator planning and evacuation of tall buildings Perfect for software designers in the private sector and academia People Flow in Buildings will also earn a place in the libraries of elevator consultants manufacturers and architects who seek a one stop reference for transportation devices from a functional and design perspective

Building Services Design for Energy Efficient Buildings Paul Tymkow,Savvas Tassou,Maria Kolokotroni,Hussam Jouhara,2020-07-12 The role and influence of building services engineers are undergoing rapid change and are pivotal to achieving low carbon buildings However textbooks in the field have tended to remain fairly traditional with a detailed focus on the technicalities of heating ventilation and air conditioning HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of the urgent challenge to address climate change together with practical approaches to energy efficiency and carbon mitigation for mechanical and electrical systems in a concise manner The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail These are HVAC and electrical systems In addition the following issues are addressed background issues on climate change whole life performance and design collaboration generic strategies for energy efficient low carbon design health and wellbeing and post occupancy evaluation building ventilation air conditioning and HVAC system selection thermal energy generation and distribution systems low energy approaches for thermal control electrical systems data collection controls and monitoring building thermal load assessment building electric power load assessment space planning and design integration with other disciplines In order to deliver buildings that help mitigate climate change impacts a new perspective is required for building

services engineers from the initial conceptual design and throughout the design collaboration with other disciplines This book provides a contemporary introduction and guide to this new approach for students and practitioners alike **Getting to Grips with BIM** James Harty,Tahar Kouider,Graham Paterson,2015-12-14 With the UK government s 2016 BIM threshold approaching support for small organisations on interpreting filtering and applying BIM protocols and standards is urgently required Many small UK construction industry supply chain firms are uncertain about what Level 2 BIM involves and are unsure about taking first steps towards having BIM capability As digitisation increasingly impacts on work practices Getting to Grips with BIM offers an insight into an industry in change supplemented by practical guidance on managing the transition towards more widespread and integrated use of digital tools to manage the design construction and whole life use of buildings Advancements in Sustainable Architecture and Energy Efficiency González-Lezcano, Roberto A.,2021-06-18 Thermal comfort and indoor air quality IAQ issues have gained significant interest in the scientific and technical community involved in building performance analysis and other related subjects In terms of thermal comfort the achievement and maintenance of a thermally acceptable indoor environment is affected by energy costs and energy poverty is a widespread problem globally There is a call for energy efficient architecture for a developed and sustainable world However with the use of renewable energy that increased considerably in recent years new technical challenges arose for the energy sector Consumers are key players in this context as flexibility in demand is crucial to cope with the intermittent nature of most renewable energy sources Active demand side participation is particularly important to ensure the efficient use of locally and globally available energy Sustainability human comfort and healthy living environments have become top priorities Advancements in Sustainable Architecture and Energy Efficiency explores how housing is a key health factor for individuals and looks at factors such as air quality ventilation hygrothermal comfort lighting physical environment building efficiency and other areas as important pieces in healthy architecture It discusses how the poor application of these parameters can directly affect human health and how sustainable architecture provides a solution Beyond just labeling the important facets of architecture for healthy living this book will look at different perspectives of energy consumption and demand to ensure sustainable energy increased energy efficiency improved energy policies and reasonable energy costs for homes This book is ideal for architects designers engineers energy engineers environmental scientists practitioners researchers academicians and students interested in architecture that is both conducive to healthy living and energy efficiency Life-Cycle Greenhouse Gas Emissions of Commercial Buildings Cuong N. N. Tran,Vivian W. Y. Tam,Khoa N. Le,2021-07-12 This book develops a model to evaluate and assess life cycle greenhouse gas emissions based on typical Australian commercial building design options It also draws comparisons between some of the many green building rating tools that have been developed worldwide to support sustainable development These include Leadership in Energy and Environmental Design LEED by the United States Green Building Council USGBC Building Research Establishment Environmental Assessment Method BREEAM

by the Building Research Establishment Comprehensive Assessment System for Building Environmental Efficiency CASBEE by the Japanese Sustainable Building Consortium and Green Star Environmental Rating System by the Green Building Council of Australia Life cycle assessment LCA life cycle energy consumption and life cycle greenhouse gas emissions form the three pillars of life cycle studies which have been used to evaluate environmental impacts of building construction Assessment of the life cycle greenhouse gas emissions of buildings is one of the significant obstacles in evaluating green building performance This book explains the methodology for achieving points for the categories associated with reduction of greenhouse gas emissions in the Australian Green Star rating system The model for the assessment uses GaBi 8.7 platform along with Visual Basic in Microsoft Excel and shows the relationship between the building's energy consumption and greenhouse gas emissions released during the lifetime of the building The data gathered in the book also illustrates that the green building design and specifications are becoming more popular and are being increasingly utilized in Australia This book is important reading for anyone interested in sustainable construction green design and buildings and LCA tools

Elevator Traffic Handbook Gina Barney, Lutfi Al-Sharif, 2015-08-27 This second edition of this well respected book covers all aspects of the traffic design and control of vertical transportation systems in buildings making it an essential reference for vertical transportation engineers other members of the design team and researchers The book introduces the basic principles of circulation outlines traffic design methods and examines and analyses traffic control using worked examples and case studies to illustrate key points The latest analysis techniques are set out and the book is up to date with current technology A unique and well established book this much needed new edition features extensive updates to technology and practice drawing on the latest international research

Fluid Mechanics Aspects of Fire and Smoke Dynamics in Enclosures Bart Merci, Tarek Beji, 2022-10-24 This book provides essential understanding of flows in fire and smoke dynamics in enclosures covering combustion heat transfer and fire suppression in more detail than other introductory books It moves from the basic equations for turbulent flows with combustion through a discussion of the structure of flames to fire and smoke plumes and their interaction with enclosure boundaries This is then applied to fire dynamics and smoke and heat control in enclosures This new edition provides considerably more on the fluid mechanics of the effect of water and on fire dynamics modelling using Computational Fluid Dynamics Presents worked examples taken from practical everyday fire related problems Covers a broad range of topics from the basics to state of the art computer simulations of fire and smoke related fluid mechanics including the effect of water Provides extensive treatment of the interaction of water sprays with a fire driven flow Contains a chapter on Computational Fluid Dynamics the increasingly popular calculation method in the field of fire safety science The book serves as a comprehensive guide at the undergraduate and starting researcher level on fire and smoke dynamics in enclosures with an emphasis on fluid mechanics

The Science of People and Office Design
Sally Augustin, Nigel Oseland, 2024-12-18 The Science of People and Office Design Planning for Thinking Discussing and

Achieving has been written for practitioners who would like to apply evidence based and human centric design principles to office and workplace design Practitioner researcher disconnects often arise due to a lack of meaningful connection between their professional worlds This book seeks to rectify this disconnect and make it clear that research can significantly affect the likelihood that design projects achieve the objectives outlined in their briefs and that practitioners need to have a real influence on research conducted The book consists of 16 chapters each grouped into three major sections with an overview chapter and a conclusion drawn together by the editors Each chapter addresses a real world workplace design related issue The first part of each chapter presents the editors overview of the problem in practice and the objectives that must be achieved via design solutions The second portion of each chapter presents peer reviewed research related to the chapter s topic written by a researcher focused on practical issues The final part of each chapter is written by a workplace design practitioner and details their efforts to resolve the section s real world workplace design related concern by applying relevant peer reviewed research The book is aimed at professionals working in business interior design architecture surveying facilities management building services engineering human resources and psychology who are key stakeholders in the design and delivery of modern office spaces Postgraduates studying design architecture engineering facilities management environmental psychology and wellbeing will also find the book useful

Sustainable Construction

Technologies Vivian Y. Tam,Khoa N. Le,2019-01-03 Sustainable Construction Technologies Life Cycle Assessment provides practitioners with a tool to help them select technologies that are financially advantageous even though they have a higher initial cost Chapters provide an overview of LCA and how it can be used in conjunction with other indicators to manage construction Topics covered include indoor environment quality energy efficiency transport water reuse materials land use and ecology and more The book presents a valuable tool for construction professionals and researchers that want to apply sustainable construction techniques to their projects Practitioners will find the international case studies and discussions of worldwide regulation and standards particularly useful Provides a framework for analyzing sustainable construction technologies and economic viability Introduces key credit criteria for different sustainable construction technologies Covers the most relevant construction areas Includes technologies that can be employed during the process of construction or to the product of the construction process i e buildings Analyzes international rating systems and provides supporting case studies

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