

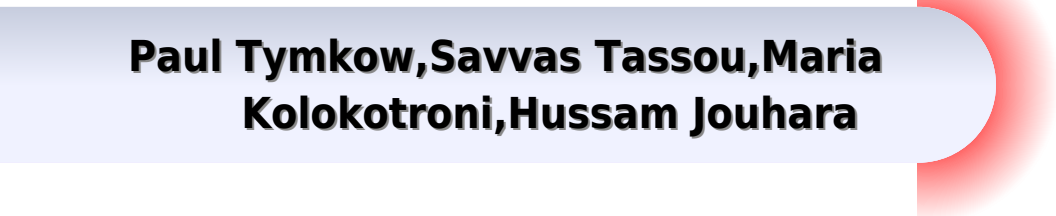
Ventilation and ductwork

CIBSE Guide B2



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Building Energy Management Systems Geoff Levermore, 2013-07-04 Energy management systems are used to monitor building temperature inside and outside buildings and control the boilers and coolers Energy efficiency is a major cost issue for commerce and industry and of growing importance on university syllabuses Fully revised and updated this text considers new developments in the control of low energy and HVAC systems and contains two new chapters Written for practising engineers essential for control engineers and energy managers in addition to being essential reading for under postgraduate courses in building services and environmental engineering

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

Environmental Design Randall Thomas, 2006-06-07 Written and edited by a team of specialists at Max Fordham LLP one of the UK's leading environmental and building services engineering consultancies Environmental Design is the result of their extensive experience in designing environmentally friendly buildings The principles of their approach which they have taught in numerous schools of architecture and engineering are clearly presented here The book starts with some basic scientific principles and environmental issues and then moves on to site planning energy use materials and building form Natural ventilation systems high efficiency mechanical equipment and alternative energy sources are also covered State of the art buildings of exceptional quality are incorporated throughout the text and illustrate the authors belief that environmentally responsible architecture can be visually exciting They conclude with a selection of detailed case studies of award winning projects including new for this third edition Beaufort Court King's Langley and the National Trust Headquarters Swindon This book is essential reading for architects engineers planners and students of these disciplines

Air Conditioning Application and Design W.P. Jones, 2012-11-12 Intended for advanced students of building services this practical book describes the design of air conditioning systems Readers are assumed to have a knowledge of the basic principles of air conditioning which are covered in the companion volume Air Conditioning Engineering This new edition takes account of the latest building codes and pays greater attention to energy conservation The section on systems characteristics is expanded and extensively revised to take account of developments in the technology of air conditioning since publication of the previous edition There are expanded sections on specialist applications such as systems for clean rooms in the semiconductor industry The author has wide experience both in lecturing on the subject and in the practical design and installation of air conditioning systems

Energy Management and Operating Costs in Buildings Keith Moss, 2013-06-17 Managing the consumption and conservation of energy in buildings must now become the concern of both building managers and occupants The provision of lighting hot water supply communications cooking space heating and cooling accounts for 45 per cent of UK energy consumption Energy Management and Operating Costs in Buildings introduces the reader to the principles of managing and conserving energy consumption in buildings people use for work or leisure Energy consumption is considered for the provision of space heating hot water supply ventilation and air conditioning The author introduces the use of standard performance indicators and energy consumption yardsticks and discusses the use and application of degree days

Newnes Building Services Pocket Book Andrew Prentice, John Knight, W.P. Jones, 2012-05-31 Newnes Building Services Pocket Book is a unique compendium of essential data techniques and procedures best practice and underpinning knowledge This makes it an essential tool for engineers involved in the design and day to day running of mechanical services in buildings and a valuable reference for managers students and engineers in related fields This pocket reference gives the reader access to the knowledge and knowhow of the team of professional

engineers who wrote the sixteen chapters that cover all aspects of mechanical building services Topic coverage includes heating systems ventilation air conditioning refrigeration fans ductwork pipework and plumbing drainage and fire protection The result is a comprehensive guide covering the selection of HVAC systems and the design process from initial drafts through to implementation The second edition builds on the success of this popular guide with references to UK and EU legislation fully updated throughout and coverage fully in line with the latest CIBSE guides

A Whole-System Approach to High Performance Green Buildings David Strong, Victoria Burrows, 2016-12-31 This authoritative new resource provides a comprehensive review of the current approaches to the design and construction of sustainable buildings This hand on guide features global case studies with practical examples of both successful and unsuccessful designs The whole system approach to integrated design is clearly presented This book includes insight into designing for the future including design quality and future proofing intelligent buildings and whole life value Nature inspired sustainable designs that can be mimicked in the construction industry are presented Technical challenges such as energy efficiency design and computer modeling are explored along with various construction phase opportunities

Building Services Engineering David V. Chadderton, 2013-01-25 Engineering services within buildings account for ongoing energy use greenhouse gas contribution and life safety provisions This fully updated sixth edition of David Chadderton s leading textbook is the perfect preparation for those intending to enter this increasingly important field Chapters addressing heating climate change air conditioning transportation systems water gas electricity drainage and room acoustics cover all the key responsibilities of the building services engineer As well as introductory material and the underpinning theory practical guidance is provided in the form of sample calculations and spreadsheets New material includes trends and recent applications in lowering the energy use by mechanical and electrical services systems heating cooling and lighting of buildings case studies modelled from post occupancy reports to provide realistic discussion topics examples of the use of photovoltaic solar panels chilled beams under floor air distribution labyrinths ground sourced heat pumps district heating and cooling energy performance certificates energy auditing and wind turbines outlines of the concepts of global warming carbon trading and zero carbon buildings exercises in each chapter and online self study questions A significantly expanded companion site offers over 1 000 self test questions powerpoint slides for lecturers and an instructors manual enabling the rapid generation of lectures assignments and tests This is the ideal textbook for students of building services engineering as well as a comprehensive guide for those about to start work

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 as opposed to a hardware perspective

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