

Cibse Guide E

A Culmination of Selected Research Papers from IEREK Conferences on Urban Planning, Architecture and Green Urbanism, Italy and Netherlands (2017)

Construction Technology 2: Industrial and Commercial Building

Engineering Guide

European Building Construction Illustrated

Development Trends in Building Services Engineering

Fire from First Principles

Energy: Management, Supply and Conservation

Durability of Critical Infrastructure, Monitoring and Testing

101 Rules of Thumb for Low-Energy Architecture

CIBSE Guide C: Reference Data

An Introduction to Fire Dynamics

Heating Services in Buildings

Structural Design in Building Conservation

Faber & Kell's Heating and Air-Conditioning of Buildings

A Design Guide to Building Fire Safety

CIBSE Guide C.

Fire Safety Risk Assessment

Building Services Handbook

Plant Engineer's Reference Book

CIBSE Guide A.

Reference Data

SFPE Guide to Human Behavior in Fire

Building Services Design Methodology

AIR DISTRIBUTION IN ROOMS Ventilation for Health and Sustainable Environment Volume II

Fire Science and Technology 2015

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CIBSE Guide H: Building Control Systems

The Proceedings of 10th Asia-Oceania Symposium on Fire Science and Technology

Advancements in Sustainable Architecture and Energy Efficiency

A Practical Guide

Measuring and reducing the energy and carbon footprint of buildings

Data Center Handbook

Fluid Mechanics Aspects of Fire and Smoke Dynamics in Enclosures

Building Services Engineering

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Urban and Transit Planning

Fire from First Principles

Fire Safety for Very Tall Buildings

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A Culmination of Selected Research Papers from IEREK Conferences on Urban Planning, Architecture and Green Urbanism, Italy and Netherlands (2017) Routledge

This book aims at fulfilling the need for a handbook at undergraduate and starting researcher level on fire and smoke dynamics in enclosures, giving fluid mechanics aspects a central role. Fluid mechanics are essential at the level of combustion, heat transfer and fire suppression, but they are described only cursorily in most of the existing fire

Routledge

For over 70 years, Faber & Kell's has been the definitive reference text in its field. It provides an understanding of the principles of heating and air-conditioning of buildings in a concise manner, illustrating practical information with simple, easy-to-use diagrams, now in full-colour. This new-look 11th edition has been re-organised for ease of use and includes fully updated chapters on sustainability and renewable energy sources, as well as information on the new Building

Regulations Parts F and L. As well as extensive updates to regulations and codes, it now includes an introduction that explains the role of the building services engineer in the construction process. Its coverage of design calculations, advice on using the latest technologies, building management systems, operation and maintenance makes this an essential reference for all building services professionals.

Construction Technology 2: Industrial and Commercial Building Springer Nature

Hazim Awbi's *Ventilation of Buildings* has become established as the definitive text on the subject.

This new, thoroughly revised, edition builds on the basic principles of the original text drawing in the results of considerable new research in the field. A new chapter on natural ventilation is also added and recent developments in ventilation concepts and room air distribution are also considered. The text is intended for the practitioner in the building services industry, the architect, the postgraduate student undertaking courses or research in HVAC, building services engineering, or building environmental engineering, and the undergraduate studying building services as a major subject. Readers are assumed to be familiar with the basic principles of fluid flow and heat transfer and some of the material requires more advanced knowledge of partial differential

equations which describe the turbulent flow and heat transfer processes of fluids. The book is both a presentation of the practical issues that are needed for modern ventilation system design and a survey of recent developments in the subject

Engineering Guide Routledge

Buildings and construction are a major contributor to the climate and biodiversity emergency. They account for nearly 40% of energy-related carbon dioxide (CO₂) emissions. It is more important than ever for architects to design responsibly and create low-carbon, low-energy buildings for a sustainable future. 101 Rules of Thumb sets out the essential elements of low-energy architecture in a fresh, intuitive way. Where ever-changing technology and complex legislation can cloud the designer's thought-process, this book equips you with the fundamentals you need to minimise CO₂ emissions, design for low-energy use and work with, not against, the forces of nature. With reliable, simple rules of thumb, each page focuses on a single piece of guidance along with a clear hand-drawn illustration. The emphasis is on passive low-energy principles, and the rules of thumb cover all the design fundamentals from site and location to orientation and form, peppered with ideas to help the designer think outside the box, drawing inspiration from traditional methods,

photoperiodic plants, and the black-tailed prairie dog. An extended, fully updated narrative bibliography explores the sources in detail and provides a valuable springboard for further study. Applicable throughout the world in any climate region, 101 Rules of Thumb is a global primer to be dipped into at any time as a quick means of re-focusing on what's important when designing a new or retrofitted low-energy building. The rules cover: Site and location Orientation and form The low-energy building envelope Carbon free heating, cooling and lighting Passive low-energy principles.

European Building Construction Illustrated City University of HK Press

'Building Control Systems' provides the building services engineer with a comprehensive understanding of modern control systems and relevant information technology. This will ensure that the best form of control systems for the building is specified and that proper provision is made for its installation, commissioning, operation and maintenance. Beginning with an overview of the benefits of the modern building control system, the authors describe the different controls and their applications, and include advice on their set-up and tuning for stable operation. There are chapters on the practical design of control systems, how to work from the hardware components and their inclusion in networks, through to control strategies in Heating, Ventilation and Air Conditioning (HVAC) systems and whole buildings. The relationship between Building, Management Systems (BMS) and information technology systems is discussed, and the building procurement process and the importance of considering control requirements at an early stage in the design process

Development Trends in Building Services Engineering Routledge

Provides a premier source for designers of low energy sustainable buildings. This work features contents that acknowledge and satisfy the Energy Performance of Buildings Directive and UK legislation, specifically the 2006 Building Regulations Approved Documents L and F. It includes supplementary information on CD-ROM.

Fire from First Principles John Wiley & Sons

This book focuses on topics in the entire spectrum of fire safety science, targeting research in fires, explosions, combustion science, heat transfer, fluid dynamics, risk analysis, structural engineering, and other subjects. The book contributes to a gain in advanced scientific knowledge and presents or advances new ideas in all topics in fire safety science. Two decades ago, the 1st Asia-Oceania Symposium on Fire Science and Technology was held in Hefei, China. Since then, the Asia-Oceania Symposia have grown in size and quality. This book, reflecting that growth, helps readers to understand fire safety technology, design, and methodology in diverse areas including historical buildings, photovoltaic panels, batteries, and electric vehicles.

Energy: Management, Supply and Conservation Elsevier

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.

Durability of Critical Infrastructure, Monitoring and Testing Routledge

With more and more concern being expressed over the Earth's dwindling energy resources as well as rising pollution levels, the subject of energy management and conservation is becoming

increasingly important. Over half of all energy consumed is used in buildings so effective management of buildings whether commercial or domestic is vital. This book is a comprehensive text dealing with the theory and practice of the supply of energy to consumers, energy management and auditing and energy saving technology. It will be a core text on courses on energy management and building services, as well as updating professionals in the building sector.

101 Rules of Thumb for Low-Energy Architecture Routledge

A volume of five parts, this book is a culmination of selected research papers from the second version of the international conferences on Urban Planning & Architectural Design for sustainable Development (UPADSD) and Urban Transit and Sustainable Networks (UTSN) of 2017 in Palermo and the first of the Resilient and Responsible Architecture and Urbanism Conference (RRAU) of 2018 in the Netherlands. This book, not only discusses environmental challenges of the world today, but also informs the reader of the new technologies, tools, and approaches used today for successful planning and development as well as new and upcoming ones. Chapters of this book provide in-depth debates on fields of environmental planning and management, transportation planning, renewable energy generation and sustainable urban land use. It addresses long-term issues as well as short-term issues of land use and transportation in different parts of the world in hopes of improving the quality of life. Topics within this book include: (1) Sustainability and the Built Environment (2) Urban and Environmental Planning (3) Sustainable Urban Land Use and Transportation (4) Energy Efficient Urban Areas & Renewable Energy Generation (5) Quality of Life & Environmental Management Systems. This book is a useful source for academics, researchers and practitioners seeking pioneering research in the field.

CIBSE Guide C: Reference Data Springer

Defining and reducing the carbon footprint of a new or refurbished building can be a daunting task. There are lots of tools to measure the environmental impact of buildings, but they all measure energy and CO2 in different ways, and they do not measure the whole carbon footprint. What Colour is your Building? provides practical and pragmatic guidance on how to calculate and then compare the whole carbon footprint of buildings using one simple method looking at operating, embodied and transport energy. It will equip designers, building owners, occupiers, planners and policy makers with the tools and knowledge that they will need to make decisions early on about where the big impacts will be in terms of reducing the carbon footprint of the building, including: A new, simple approach to understanding the whole carbon impact of buildings Benchmarking data for operating energy performance A clear, transparent method of separating landlord energy performance from tenant energy performance Simple diagrams and numbers to put renewable energy into perspective.

An Introduction to Fire Dynamics Routledge

This eighth edition of Hall and Greeno's leading textbook has been reviewed and updated in relation to the latest building and water regulations, new technology, and new legislation, and even more design calculations have been added. In addition, topics such as: alternative sources of natural energy, solar, ground source, heat pumps, renewable energy sources, geothermal methods, and wind power, are now covered. Building Services Handbook summarises the application of all common elements of building services practice, technique and procedure, to provide an essential information resource for students as well as practitioners working in building services, building management and the facilities administration and maintenance sectors of the construction industry. Information is presented in the highly illustrated and accessible style of the best-selling companion title Building Construction Handbook. THE comprehensive reference for all construction and building services students, Building Services Handbook is ideal for a wide range of courses including NVQ and BTEC National through Higher National Certificate and Diploma to Foundation and three-year Degree level. The clear illustrations and complementary references to industry Standards combine essential guidance with a resource base for further reading and development of specific topics.

Heating Services in Buildings Routledge

This is the third edition of an introduction to building fire safety that explains from first principles the basic strategies of fire safety design available to the building and construction professional.

Structural Design in Building Conservation Routledge

Building Services Design Methodology clearly sets out and defines the building services design process from concept to post-construction phase. By providing a step-by-step methodology for students and practitioners of service engineering, the book will encourage improved efficiency (both in environmental terms and in terms of profit enhancement) through better project

management. Generic advice and guidance is set in the current legal and contractual context, ensuring that this will be required reading for professionals. The book's practical style is reinforced by a number of case studies.

Faber & Kell's Heating and Air-Conditioning of Buildings John Wiley & Sons

Designed in a structured, directed format to help develop understanding, rather than just providing a simple source of information, this popular undergraduate textbook offers comprehensive coverage of industrial and commercial building technology. It builds on material in the first volume in the series Construction Technology 1: House Construction but it is also valuable as a standalone text. The most student-friendly textbook in the area, it uses a wealth of features to reinforce understanding and test knowledge, including case studies and comparative studies. Case studies include photographs and commentary on specific aspects of the technology of framed buildings, while comparative studies allow the reader to make a critical evaluation, comparing and contrasting design details and solutions. This textbook is aimed at undergraduates in Construction Management, Quantity Surveying and Building Surveying, and HNC/D students in the same areas. It is also ideal for associated Built Environment courses e.g. Land Management, Civil Engineering, where the basic technologies need to be understood. New to this Edition: - Thoroughly revised throughout - New material on sustainable construction incorporated as a key theme in each aspect of technology - A new chapter on building services installations - A new section of the highly topical subject of Building Information Modelling (BIM)

A Design Guide to Building Fire Safety CIBSE GUIDE E Fire Safety Engineering Now in its fourth edition, CIBSE Guide E has been fully updated to take into account new knowledge and latest techniques. Written by experienced fire engineers, it is intended to give useful, practical advice on fire safety engineering. A new chapter on facade fire safety is included in this edition. Contents -- 1. Introduction -- 2. Legislation -- 3. Building designation -- 4. Performance-based design principles -- 5. Application of risk assessment to fire engineering designs -- 6. Fire dynamics -- 7. Means of escape and human factors -- 8. Fire detection and alarm -- 9. Emergency lighting -- 10. Smoke ventilation -- 11. Fire suppression -- 12. Fire resistance, structural robustness in fire and fire spread -- 13. Firefighting -- 14. Fire safety management -- 15. Fire safety on construction sites -- 16. Fire safety of building facades. CIBSE Guide H: Building Control Systems

This book assesses the contemporary changes in design concepts and development trends of the major disciplines in building services engineering. Among the analyses featured are trends on heating, ventilating and air-conditioning, electrical and fire services, plumbing and drainage, and building automation systems. Powerful examples of well-known building projects in Hong Kong and Mainland China will be put forward and discussed. Published by City University of Hong Kong Press.

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CIBSE Guide C. John Wiley & Sons

Guide C: Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material. Expanded and updated throughout, the book contains sections on the properties of humid air, water and steam, on heat transfer, the flow of fluids in pipes and ducts, and fuels and combustion, ending with a comprehensive section on units, mathematical and miscellaneous data. There are extensive and easy-to-follow tables and graphs.

Fire Safety Risk Assessment Routledge

Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes multiple power sources, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning Design and build "green" data centers, with mission critical and energy-efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations.

Building Services Handbook Routledge

Beginning with an overview of the benefits of the modern building control system, the authors go on to describe the different controls and their applications and include advice on their set-up and tuning for stable operation.

Plant Engineer's Reference Book Routledge

This Guide provides information on special topics that affect the fire safety performance of very tall

buildings, their occupants and first responders during a fire. This Guide addresses these topics as part of the overall building design process using performance-based fire protection engineering concepts as described in the SFPE Engineering Guide to Performance Based Fire Protection. This Guide is not intended to be a recommended practice or a document that is suitable for adoption as

a code. The Guide pertains to "super tall," "very tall" and "tall" buildings. Throughout this Guide, all such buildings are called "very tall buildings." These buildings are characterized by heights that impose fire protection challenges; they require special attention beyond the protection features typically provided by traditional fire protection methods. This Guide does not establish a definition of buildings that fall within the scope of this document.

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