

## **Cibse Guide C Reference Data By Cibse**

*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*

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*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,*

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*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,*

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*this is your one-stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings. The first European edition of Francis DK Ching's classicvisual guide to the basics of building construction. For nearly four decades, the US publication BuildingConstruction Illustrated has offered an outstanding introduction tothe principles of building construction. This new European editionfocuses on the construction methods most commonly used in Europe,referring largely to UK Building Regulations overlaid with Britishand*

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*European, while applying Francis DK Ching's clear graphicsignature style. It provides a coherent and essential primer,presenting all of the basic concepts underlying buildingconstruction and equipping readers with useful guidelines forapproaching any new materials or techniques they may encounter. European Building Construction Illustrated provides acomprehensive and lucid presentation of everything from foundationsand floor systems to finish work. Laying out the material andstructural choices available, it provides a*

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*full understanding of how these choices affect a building's form and dimensions. Complete with more than 1000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems and finishes. Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials Provides an overview of the mainstream construction methods used in Europe Based around the UK regulatory framework, the book refers to European level*

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*regulations where appropriate. References leading environmental assessment methods of BREEAM and LEED, while outlining the Passive House Standard Includes emerging construction methods driven by the sustainability agenda, such as structural insulated panels and insulating concrete formwork Features a chapter dedicated to construction in the Middle East, focusing on the Gulf States This new book, by the original developer of the BACnet standards, explains how BACnet's protocols manage all basic building functions in a seamless,*

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*integrated way. BACnet is a data communication protocol for building automation and control systems, developed within ASHRAE in cooperation with ANSI and the ISO. This book explains how BACnet works with all major control systems--including those made by Honeywell, Siemens, and Johnson Controls--to manage everything from heating to ventilation to lighting to fire control and alarm systems. BACnet is used today throughout the world for commercial and institutional buildings with complex mechanical and electrical systems. Contractors, architects, building systems engineers,*

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*and facilities managers must all be cognizant of BACnet and its applications. With a real 'seat at the table,' you'll find it easier to understand the intent and use of each of the data sharing techniques, controller requirements, and opportunities for interoperability between different manufacturers' controllers and systems. Highlights include: \* A review of the history of BACnet and its essential features, including the object model, data links, network technologies, and BACnet system configurations; \* Comprehensive coverage of*

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*services including object access, file access, remote device management, and BACnet-2012's new alarm and event capabilities; \* Insight into future directions for BACnet, including wireless networking, network security, the use of IPv6, extensions for lifts and escalators, and a new set of BACnet Web Services; \* Extensive reference appendices for all objects and services; and \* Acronyms and abbreviations*

*Hardbound. The concepts, elements and design patterns of passive buildings are dealt with in this book. These patterns are a way to*

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*conserve energy in buildings or to provide more comfortable conditions inside the space through natural means. A systematic approach has been used in the presentation of the various concepts and elements of heating, cooling, combined heating and cooling, humidity control and daylighting. This has been achieved by describing the basic principles, their design aspects and performance, and illustrating with appropriate examples. The subject is covered in a compact yet comprehensive way. The information presented in the main text*

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*is supplemented by very useful appendices, which also include some case studies of passive buildings from all over the world. Recent Advances in Design and Decision Support Systems in Architecture and Urban Planning Planning and Design Data CIBSE Guide C. HVAC Engineer's Handbook*

*Reference and Master Data Management Semantic Modeling Daniel Link explores how data analytics can be used for studying performance in soccer. Based on spatiotemporal data from the German*

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*Bundesliga, the six individual studies in this book present innovative mathematical approaches for game analysis and player assessment. The findings can support coaches and analysts to improve performance of their athletes and inspire other researchers to advance the research field of sports analytics.*

*Newnes Building Services Pocket Book is a unique compendium of essential data, techniques and*

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*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*

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*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*

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*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.*

*Laxton's gives you access to the most reliable and current data. All 250,000 price elements have been individually checked and updated for the 2002 edition so that your estimates are always accurate and cost competitive. Laxton's*

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*makes analytical estimating simple and straightforward by displaying a complete breakdown for all measured items under 10 separate headings, all on a single page. This shows you a complete price build-up at a glance - and gives you the option to make price adjustments wherever necessary. You can find the sections you need quickly and easily, via the special marker system on the front cover and page edges.*

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*The free CD with this price book contains Masterbill's ESTIMATOR software and fully resourced data on all the price elements in Laxtons. Not only does the CD offer fast and efficient pricing at the touch of a button, it gives details of all the resources required to do the job. Laxton's approximate estimating section gives all in pricing for quick reference on the cost of composite items such as floors helping you*

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*calculate the cost implications of using plywood sheeting rather than softwood boarding, for example. Laxton's Basic Price section gives you a quick price on hundreds of items - from concrete work to roofing materials - to save you going through hundreds of lists from suppliers, manufacturers and building merchants. Laxton's Brand and Trade Names section lists over 12,000 brands and trade names and company addresses to help you*

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*locate specific items.  
Latest wage rates, fees  
and allowances All  
250,000 price elements  
checked and updated  
David Chadderton's Air  
Conditioning is the  
complete introduction  
and reference guide for  
students and  
practitioners of air  
conditioning design,  
installation and  
maintenance. The  
scientific principles  
involved are introduced  
with the help of case  
studies and exercises,  
and downloadable*

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*spreadsheets help you work through important calculations. New chapters on peak summertime air temperature in buildings without cooling systems, air duct acoustic calculations and air conditioning system cost enhance the usefulness to design engineers. Case studies are created from real life data, including PROBE post-occupancy reports, relating all of the theoretical explanations to current practice.*

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*Trends and recent applications in lowering energy use by air conditioning are also addressed, keeping the reader informed of the latest sustainable air conditioning technologies. Over 75 multiple choice questions will help the reader check on their progress. Covering both tropical and temperate climates, this is the ideal book for those learning about the basic principles of air conditioning, seeking to*

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*understand the latest  
technological  
developments, or  
maintaining a successful  
HVAC practice anywhere  
in the world.*

*A Guide to Building  
Information Modeling for  
Owners, Designers,  
Engineers, Contractors,  
and Facility Managers  
Major and Small Works  
Air Conditioning  
Domestic Heating Design  
Guide*

*A Guide to Building  
Information Modeling for  
Owners, Managers,  
Designers, Engineers and*

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*Contractors*

*Air Conditioning System  
Design*

**Discover BIM: A better way to build better buildings** Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. **The BIM Handbook, Third**

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**Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various**

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**professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct**

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**better buildings that consume fewer materials and require less time, labor, and capital resources.**

**Preface. International Scientific Committee.**

**Introduction. Applications of Artificial Intelligence.**

**Applications of Neural Networks for Landslide Susceptibility Mapping in Turkey; E. Yesilnacar, G.J.**

**Hunter. An Evaluation of Neural Spatial Interaction Models Based on a Practical Application; A. Akamine, A.N. Rodrigues da Silva. Improved Understanding of Urban Sprawl Using Neural**

**Networks; L. Diappi, P. Bolchi, M. Buscema. Visualisation for Design and Decision Support. Using On-Line Geographical Visualisation Tools to Improve Land Use Decision-Making with a Bottom-Up Community Participatory App.**

**Engineering services present a significant cost in terms of the installation cost, the energy consumed and the maintenance, repair and upgrading of the systems. It is therefore important that construction professionals have a good understanding of the basics and applications of building services engineering.**

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**This thoroughly up-dated fourth edition of David Chadderton's text provides study materials in the fields of construction, architectural, surveying and energy engineering. In particular, the chapters on The Built Environment and Energy Economics benefit from the author's recent industrial work. Additional material, including further questions, interactive calculations, simple PowerPoint material and links to related websites, are available on the author's website. David is a Chartered Professional Engineer with the**

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**Institution of Engineers  
Australia, a Chartered Building  
Services Engineer with the  
Engineering Council in the UK,  
through the Chartered  
Institution of Building Services  
Engineers, and a Member of  
the Australian Institute of  
Refrigeration, Air Conditioning  
and Heating. Since November  
2001, David he has been  
Director of his own company,  
Eteq Pty Ltd. specializing in  
the designing and  
implementation of energy  
saving projects in commercial,  
health care, university and  
manufacturing buildings.  
The Code for Lighting has**

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**been revised and updated to include exterior lighting as well as interior lighting. The book takes into account new legislation such as the 2002 revision of Part L of the Building Regulations as well as new and forthcoming International and European Standards on lighting and ergonomics. It also reflects new initiatives on energy conservation in the UK. This book is primarily intended to provide guidance to those responsible for the design, installation, commissioning, operation and maintenance of building services.**

**Enterprise Data Governance  
Tableau: Creating Interactive  
Data Visualizations  
Newnes Building Services  
Pocket Book  
Metric Handbook  
Heating, Ventilating, Air  
Conditioning and Refrigeration  
An Introduction for Architects  
and Engineers**

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,

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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

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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 Illustrate your data in a more interactive way by implementing data visualization principles and creating visual stories using Tableau About This Book Use data visualization principles to help you to design dashboards that enlighten and support business decisions Integrate your data to provide mashed-up dashboards Connect to various data sources and

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understand what data is appropriate for Tableau Public Understand chart types and when to use specific chart types with different types of data Who This Book Is For Data scientists who have just started using Tableau and want to build on the skills using practical examples. Familiarity with previous versions of Tableau will be helpful, but not necessary. What You Will Learn Customize your designs to meet the needs of your business using Tableau Use Tableau to prototype, develop, and deploy the final dashboard Create filled maps and use any

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shape file Discover features of Tableau Public, from basic to advanced Build geographic maps to bring context to data Create filters and actions to allow greater interactivity to Tableau Public visualizations and dashboards Publish and embed Tableau visualizations and dashboards in articles In Detail With increasing interest for data visualization in the media, businesses are looking to create effective dashboards that engage as well as communicate the truth of data. Tableau makes data accessible to everyone, and is a great way of sharing

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enterprise dashboards across the business. Tableau is a revolutionary toolkit that lets you simply and effectively create high-quality data visualizations. This course starts with making you familiar with its features and enable you to develop and enhance your dashboard skills, starting with an overview of what dashboard is, followed by how you can collect data using various mathematical formulas. Next, you'll learn to filter and group data, as well as how to use various functions to present the data in an appealing and accurate way. In the first module, you will learn how

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to use the key advanced string functions to play with data and images. You will be walked through the various features of Tableau including dual axes, scatterplot matrices, heat maps, and sizing. In the second module, you'll start with getting your data into Tableau, move onto generating progressively complex graphics, and end with the finishing touches and packaging your work for distribution. This module is filled with practical examples to help you create filled maps, use custom markers, add slider selectors, and create dashboards. You will learn

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how to manipulate data in various ways by applying various filters, logic, and calculating various aggregate measures. Finally, in the third module, you learn about Tableau Public using which allows readers to explore data associations in multiple-sourced public data, and uses state-of-the-art dashboard and chart graphics to immerse the users in an interactive experience. In this module, the readers can quickly gain confidence in understanding and expanding their visualization, creation knowledge, and quickly create interesting, interactive data

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visualizations to bring a richness and vibrancy to complex articles. The course provides a great overview for beginner to intermediate Tableau users, and covers the creation of data visualizations of varying complexities. Style and approach The approach will be a combined perspective, wherein we start by performing some basic recipes and move on to some advanced ones. Finally, we perform some advanced analytics and create appealing and insightful data stories using Tableau Public in a step-by-step manner.

Avoiding the need for a

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detailed knowledge of mathematical theory this book involves the reader in working through examples and case studies to come to a thorough understanding of the design of heating and water services in buildings. 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

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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

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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.

A Practical Introduction  
CIBSE Guide A.

Handbook of Energy Audits  
BACnet

Rules of Thumb

Reference Data

***Tall buildings are not the only solution for achieving sustainability through increased density in cities but, given the scale of***

***current population shifts, the vertical city is increasingly being seen as the most viable solution for many urban centers. However, the full implications of concentrating more people on smaller plots of land by building vertically - whether for work, residential or leisure functions - needs to be better researched and understood. It is generally accepted that we need to reduce the energy equation - in both operating and embodied terms - of every component and system in the building as an essential***

***element in making it more sustainable. Mechanical HVAC systems (Heating, Ventilation and Air-Conditioning) in tall office buildings typically account for 30-40 percent of overall building energy consumption. The increased efficiency (or possibly even elimination) of these mechanical systems - through the provision of natural ventilation - could thus be argued to be the most important single step we could make in making tall buildings more sustainable. This guide sets out recommendations for***

***every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather, and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. Tried and tested solutions to real-life problems make this an essential guide for anyone working on the***

***design and operation of tall buildings anywhere in the world. This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings & Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much-reduced environmental impact, while taking the industry closer to an appreciation of what constitutes a sustainable tall building, and what factors affect the sustainability threshold for tall.***

***"The BIM Handbook is an extensively researched and meticulously written book, showing evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support***

***it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it."***

***—AECbytes book review, August 28, 2008 ([www.aecbytes.com/review/2008/BIMHandbook.html](http://www.aecbytes.com/review/2008/BIMHandbook.html)) DISCOVER BIM: A BETTER WAY TO BUILD BETTER BUILDINGS Building Information Modeling (BIM) offers a novel approach to design,***

***construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that***

***effective use of BIM can provide to all members of a project team. Updates to this edition include: Completely updated material covering the current practice and technology in this fast-moving field Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book New insight on the ways BIM facilitates sustainable building New information on interoperability schemas and collaboration tools Six new case studies Painting a***

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***colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Second Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.***

***Guide C: Reference Data contains the basic physical data and calculations which***

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***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. 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.***

***·Essential reference tool for all professional building services engineers ·Easy to***

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***follow tables and graphs  
make the data accessible  
for all professionals***

***·Provides you with all the  
necessary data to make  
informed decisions***

***Designing Zero Carbon  
Buildings Using Dynamic  
Simulation Methods***

***Environmental Design***

***CIBSE Guide B***

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

***Building Services***

***The Global Standard for  
Building Automation and  
Control Networks***

CIBSE Guide C: Reference  
DataRoutledge

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In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings, this considerably expanded second edition includes new advanced topics on multi-objective optimisation; reverse modelling; reduction of the simulation performance gap; predictive control; nature-inspired emergent simulation leading to sketches that become 'alive'; and an alternative economics for achieving the sustainability paradigm. The book features student design work from a Master's programme run by the author, and their design

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speculation for a human settlement on Mars. Tasks for simple simulation experiments are available for the majority of topics, providing the material for classroom exercise and giving the reader an easy introduction into the field. Extended new case studies of zero carbon buildings are featured in the book, including schemes from Japan, China, Germany, Denmark and the UK, and provide the reader with an enhanced design toolbox to stimulate their own design thinking.

Rules of Thumb are general principles derived from practice and experience rather than

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precise theory. The 5th edition of Rules of Thumb has been created by referencing various contemporary sources in the building services industry and can reasonably be held to reflect current design practices. 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

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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

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requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

A technical guide to low and zero energy buildings

Laxton's Building Price Book  
2002

Guide to Natural Ventilation in High Rise Office Buildings

Guidelines for Building Services

Building Services Engineering

The SLL Code for Lighting

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

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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.

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Designed for students and professional engineers, the fifth edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems. W P Jones is an acknowledged expert in the field, and he uses his experience as a lecturer to present the material in a logical and accessible manner, always introducing new techniques with the use of worked examples.

A textbook for students at undergraduate and equivalent level taking courses on the built environment. It will appeal in particular to second level students of construction, building surveying, quantity surveying and architecture.

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While covering the full range of topics normally associated with building services, the author focuses on the treatment of energy within the built environment, as this is held to be one of the chief concerns of building consultants, building and facilities managers, inspectors and engineers. Now there is a comprehensive reference to provide tools on implementing an energy audit for any type of facility. Containing forms, checklists and handy working aids, this book is for anyone implementing an energy audit. Accounting procedures, rate of return, analysis and software programs are included to provide evaluation tools for audit recommendations. Technologies for

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electrical, mechanical and building systems are covered in detail.

European Building Construction Illustrated

The Passivhaus Designer ' s Manual  
A Handbook of Natural Climatic Control

BIM Handbook

Heating and Water Services Design in Buildings

Air Conditioning Engineering

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

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Documents L and F. It includes supplementary information on CD-ROM.

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

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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

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disciplines.

In the almost sixty years since the publication of the first edition of HVAC Engineer's Handbook, it has become widely known as a highly useful and definitive reference for HVAC engineers and technicians alike, and those working on domestic hot and cold water services, gas supply and steam services. The 11th edition continues in the tradition of previous editions, being easily transportable and therefore an integral part of the HVAC engineer or technician's daily tools. Newly updated data on natural ventilation, ventilation rates, free cooling and night-time cooling, make the 11th edition of the HVAC

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Engineer's Handbook a vital source of information. Fred Porges has worked in both the manufacturing and process industries, and became a partner in a building services consultancy in 1962. He has held senior positions with design contractors, and his experience covers every building service and type of building from schools to housing, factories to laboratories. In an increasingly digital economy, mastering the quality of data is an increasingly vital yet still, in most organizations, a considerable task. The necessity of better governance and reinforcement of international rules and regulatory or oversight structures (Sarbanes Oxley, Basel II,

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Solvency II, IAS-IFRS, etc.) imposes on enterprises the need for greater transparency and better traceability of their data. All the stakeholders in a company have a role to play and great benefit to derive from the overall goals here, but will invariably turn towards their IT department in search of the answers. However, the majority of IT systems that have been developed within businesses are overly complex, badly adapted, and in many cases obsolete; these systems have often become a source of data or process fragility for the business. It is in this context that the management of ‘reference and master data’ or Master Data

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Management (MDM) and semantic modeling can intervene in order to straighten out the management of data in a forward-looking and sustainable manner. This book shows how company executives and IT managers can take these new challenges, as well as the advantages of using reference and master data management, into account in answering questions such as: Which data governance functions are available? How can IT be better aligned with business regulations? What is the return on investment? How can we assess intangible IT assets and data? What are the principles of semantic modeling? What is the MDM technical

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architecture? In these ways they will be better able to deliver on their responsibilities to their organizations, and position them for growth and robust data management and integrity in the future.

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