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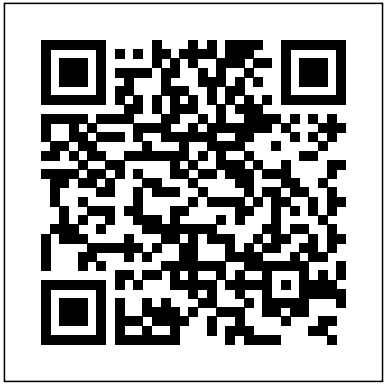

Materials for Energy Efficiency and Thermal Comfort in Buildings Elsevier
The office is dead. Long live the office. Despite decades of predictions that the office is on the verge of extinction, it is surviving and thriving. Of course, things are changing. And changing fast. Digital technologies are transforming not only the work we do, but also the ways our workplaces are designed, built and operated. Automation and AI mean that some jobs will no longer exist whilst others will be created. But the very essence of the workplace — human interaction and collaboration, remains as necessary as ever. In fact, it is the human focus that is driving this new age, with four generations now in the workplace together for the first time. Taking an interdisciplinary approach, this book discusses the impacts of these changes on the future of work and workplace. The latest technologies are also explored from voice and digital twins, to new materials such as graphene and battery-powered buildings.
Construction - Craft to Industry John Wiley & Sons
Building ServicesThe CIBSE JournalEnergy Management and Operating Costs in BuildingsRoutledge
Theory, Research and Applications for Management Routledge
Modernisation, Mechanisation and Industrialisation of Concrete Structures discusses the manufacture of high quality prefabricated concrete construction components, and how that can be achieved through the

application of developments in concrete technology, information modelling and best practice in design and manufacturing techniques.

Designing Better Buildings John Wiley & Sons

2000 years ago the roman architect Marcus Vitruvius Pollio wrote the ten books on architecture establishing the concept of the pattern book offering design principles and solutions that is still referred to in every architect's education. A Green Vitruvius is intended as a green pattern book for today. Now fully updated, this well established textbook provides advice suitable for undergraduate and post graduate students on the integration of sustainable practice into the design and construction process, the issues to be considered, the strategies to be adopted, the elements of green design and design evaluation within the process. Classic design elegance is found in the holistic clear solution.

Transient Airflow in Building Drainage Systems Routledge

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.

Studies in the History of Services and Construction Taylor & Francis

This book discusses urban microclimate and heat-related risks in urban areas, brought on by the combination of global climate change effects and local modification of climate determined by extensive urbanization such as the ‘ Urban heat island ’ phenomenon. This matter is relevant to almost all urbanized areas in the world, where the increase of urban population and air temperature is expected to endanger both the overall health of the population and the energy supply for the functioning of urban systems. The book details the inter-relationship between urban morphology, microclimate and building energy performance and presents a multidisciplinary approach that brings together Urban Climatology, Engineering and Architectural knowledge to support the development of reliable models and tools for research and practice. This book is a useful tool for architects and building energy modelers, urban planners and geographers who need a practical guide to realize basic urban microclimate simulation for use in both academic research and planning practice.

Getting to Grips with BIM Lulu.com

'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

Future Office Springer Nature

In this book, the authors provide up-to-date thinking and research on the broad range of emotional experience in working environments with particular attention to the causes of emotional change, the consequences of emotional experience for individuals and their organisations, and the implications for effective strategies for managing individuals (including oneself) and organisations. * Offers systematic coverage of the latest concepts of emotion and methods for research in organisations * Includes scientific understanding and critique of the field as well as implications for organisational practice.

Creating the Productive Workplace Routledge

This book provides a unique and comprehensive survey of changes and trends in

the construction industry focusing on the post-war years and emphasizing their contemporary and future relevance.

The Routledge Companion to Paradigms of Performativity in Design and Architecture
John Wiley & Sons

The role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low-carbon buildings. However, textbooks in the field have largely focused on the detailed technicalities of HVAC systems, often with little wider context. This book addresses that need by embracing a contemporary understanding of energy efficiency imperatives, together with a strategic approach to the key design issues impacting upon carbon performance, in a concise manner. The key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail. In addition, the following issues are addressed in turn: Background issues for sustainability and the design process Developing a strategic approach to energy-efficient design How to undertake load assessments System comparison and selection Space planning for services Post-occupancy evaluation of completed building services In order to deliver sustainable buildings, a new perspective is needed amongst building and services engineering designers, from the outset of the conceptual design stage and throughout the whole design process. In this book, students and practitioners alike will find the ideal introduction to this new

approach.

Building Services Design for Energy Efficient Buildings Simon and Schuster

Building services are often overlooked in the history of architecture and engineering. This volume presents 41 papers presented at the Fifth Annual Conference of the Construction History Society held at Queens' College Cambridge from 6-8 April 2018 which cover a wide variety of topics on aspects of construction history and building services.

Energy Management and Operating Costs in Buildings Routledge

The definitive guide to the design of environmental control systems for buildings—now updated in its 13th Edition Mechanical and Electrical Equipment for Buildings is the most widely used text on the design of environmental control systems for buildings—helping students of architecture, architectural engineering, and construction understand what they need to know about building systems and controlling a building's environment. With over 2,200 drawings and photographs, this 13th Edition covers basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes. It also provides information on the latest technologies, emerging design trends, and updated codes. Presented in nine parts, Mechanical and Electrical Equipment for Buildings, Thirteenth Edition offers readers comprehensive coverage of: environmental resources; air quality; thermal, visual, and acoustic comfort; passive heating and cooling; water design and supply; daylighting and electric lighting; liquid and solid waste; and building noise control. This book also presents

the latest information on fire protection, electrical systems; and elevator and escalator systems. This Thirteenth Edition features: Over 2,200 illustrations, with 200 new photographs and illustrations All-new coverage of high-performance building design Thoroughly revised references to codes and standards: ASHRAE, IES, USGBC (LEED), Living Building Challenge, WELL Building Standard, and more Updated offering of best-in-class ancillary materials for students and instructors available via the book ' s companion website Architect Registration Examination ® (ARE ®) style study questions available in the instructor ' s manual and student guide Mechanical and Electrical Equipment for Buildings, has been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years. This Thirteenth Edition has evolved to reflect the ever-growing complexities of building design, and has maintained its relevance by allowing for the conversation to include " why " as well as " how to. "

Physical Models Routledge

An ideal introduction to the principles of managing and conserving energy consumpton in buildings people use for work or leisure that will be invaluable to students and energy managers. This updated edition includes two new chapters on current regulations and the environmental impact of building services.

Modernisation, Mechanisation and Industrialisation of Concrete Structures Bentham Science Publishers

Environmental and Architectural Psychology: The Basics is a jargon-free and accessible introduction to the relationship between people and their natural and built environment.

Exploring everything from the effectiveness of open plan offices to how people respond to life-threatening disasters, the book addresses issues around sustainability, climate change, and behaviour, and is grounded in theory and ideas drawn from psychology, geography, and architecture. Author Ian Donald introduces both the theoretical underpinnings and the applications of environment-behaviour research to solving real world problems, encouraging readers to reflect on the role of design and policy in shaping the environments in which they live and work. With chapters considering the impact of environment on identity, wellbeing, crime, and spatial behaviour, Donald shows us not only how people shape and affect the environment, but also in turn how the environment shapes and affects people ' s thoughts, feelings, and behaviours. Addressing some of the most important questions of our time, including how behaviour drives climate change, and what we can do about it, this is the ideal book for anyone interested in the interactions between architecture, the environment, and psychology.

Energy: Management, Supply and Conservation Routledge

This book presents 25 international housing schemes that draw on traditional vernacular principles whilst taking into account modern day materials, methods and financial or energy requirements. The aim is to show how, despite mass housing needs, we can design quality modern schemes that ' fit ' their surroundings and generate a sense of place, community and regional identity – rather than the poor quality, identikit

housing currently seen wherever you are in the UK.

How British Housing Can Rediscover its Soul

Springer

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 Engineering Spreadsheets

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.

Quality and Value in the Built Environment Routledge
Housing Fit for Purpose sets out a research-focused approach to looking at the challenges facing the built environment in approaching the design, construction and management of housing. This book uses original research by the author on housing performance evaluation and distils it for built environment professionals, arguing that learning from feedback should be taking place at every stage of the housing project lifecycle, improving outcomes for end users. Drawing on active research, this book shows why and how the design, construction and management of housing can be linked to feedback and actual evidence of how people choose, and learn, to use their homes. It examines the key concepts which underlie participatory design, occupancy feedback and learning, and includes a practical primer on how to undertake housing occupancy feedback.

Places to Work Creatively Routledge
Inefficient energy use in buildings is both increasingly expensive and unsustainable. Indeed, the reduction of the energy consumption of existing buildings is as least as important as the design of new low-energy buildings. Controlling energy use is one thing, but it is important to assess or estimate it, and to understand the range of interventions for reducing its use and the methods for assessing the cost effectiveness of these measures. This comprehensive guide clearly and concisely covers the various issues from a theoretical standpoint and provides practical, worked examples where appropriate, along with examples of how the calculations are carried out. 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. 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 it through. This book should appeal to building managers and facilities managers and also to students of energy management modules in FE and HE courses.

Contemporary Vernacular Design

Routledge

The definitive guide to keeping your brain healthy for a long and lucid life, by one of the world's leading scientists in the field of brain health and ageing. The brain is our most vital and complex organ. It controls and coordinates our actions, thoughts and interactions with the world around us. It is the source of personality, of our sense of self, and it shapes every aspect of our human experience. Yet most of us know precious little about how our brains actually work, or what we can do to optimise their performance. Whilst cognitive decline is the biggest long-term health worry for many of us, practical knowledge of how to look after our brain is thin on the ground. In this ground-breaking new book, leading expert Professor James Goodwin explains how simple strategies concerning exercise, diet, social life, and sleep can transform your brain health paradigm, and shows how you can keep your brain youthful and stay sharp across your life. Combining the latest scientific research with insightful storytelling and practical advice, Supercharge Your Brain reveals everything you need to know

about how your brain functions, and what you can do to keep it in peak condition.