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CRC Press

When used appropriately, building performance simulation has the potential to reduce the environmental impact of the built environment, to improve indoor quality and productivity, as well as to facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has shifted from a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information modelling, occupant behaviour modelling, urban physics modelling, urban building energy modelling and renewable energy systems modelling. This new edition keeps the same chapter structure throughout including learning objectives, chapter summaries and assignments. Moreover, the book:

- Provides unique insights into the techniques of building performance modelling and simulation and their application to performance-based design and operation of buildings and the systems which service them.
- Provides readers with the essential concepts of computational support of performance-based design and operation.
- Provides examples of how to use building simulation techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for building and systems designers and operators, and postgraduate architectural, environmental or mechanical engineering students.

A Multidisciplinary and Multisensory Approach Cengage Learning

The 2020 National Electrical Code covers the most current standards and topics such as: renewable energy and energy storage.

Fundamentals of Architectural Lighting CRC Press

The theme of this book is that light is an inseparable part of architectural design, and is intended to provide students of architecture and interior design with a graphic guideline to the fundamental role lighting plays in this process. While simple light sources may be enough to satisfy practical needs, the design process must expand beyond basic illumination. The challenge for architects and designers is the creation of luminous environments offering visual interest and a sense of well-being, while also meeting basic seeing needs.

Technological advances provide opportunities for the lighting designer's creative introduction of light, and the visual and psychological perceptions of the illuminated architectural environment. **Fundamentals of Architectural Lighting** offers a complete comprehensive guide to the basics of lighting design, equipping students and practitioners with the tools and ideas they need to master a variety of lighting techniques. The book is extensively illustrated with over 250 illustrations to demonstrate basic principles and procedures. It is an excellent resource for anyone interested in the fundamentals of integrated lighting for architectural interior spaces.

Translation and Processing of Light by the Non-Image Forming Visual System – Context, Mechanisms and Applications McGraw Hill Professional

This book contains the proceedings of the fifth International Conference on Harmonisation between Architecture and Nature (Eco-Architecture 2014). Eco-Architecture implies a new approach to the design process intended to harmonise its products with nature.

This involves ideas such as minimum use of energy at each stage of the building process, taking into account the amount required during the extraction and transportation of materials, their fabrication, assembly, building erection, maintenance and eventual future recycling. Another important issue is the adaptation of the architectural design to the natural environment, learning from nature and long time honoured samples of traditional constructions. The papers in this book deal with topics such as building technologies, design by passive systems, design with nature, cultural sensitivity, life cycle assessment, resources and rehabilitation and many others. Also included are case studies from many different places around the world. Eco-Architecture by definition is a highly multi-disciplinary

subject. Eco-Architecture V: Harmonisation between Architecture and Nature will therefore be of interest to, in addition to architects, many other professionals, including engineers, planners, physical scientists, sociologists and economists. Topics covered include: Design with nature; Energy efficiency; Building technologies; Ecological impacts of materials; Bioclimatic design; Water quality; Green facades; Ecological and cultural sensitivity; Education and training; Case studies; Design by passive systems; Adapted reuse; Life cycle assessment and durability; Transformative design; Sustainability indices in architecture.

Organizational Culture and Leadership World Book

This book explores how environmental urban design can benefit from established and emerging representation and simulation techniques that meet the need for a multisensory approach. Bringing together contributions by researchers and practicing professionals that approach the topics discussed from both theoretical and practical perspectives and draw on case-study applications, it addresses important themes including digital modeling, physical modeling, mapping, and simulation. The chapters are linked by their relevance to simple but crucial questions: How can representational solutions enhance an urban design approach in which people's well-being is considered the primary goal? How can one best represent and design the ambiance of places? What kinds of technologies and tools are available to support multisensory urban design? How can current and future environments be optimally represented and simulated, taking into account the way in which we experience places? Shedding new light on these key questions, the book offers both a reference guide for those engaged in applied research, and a toolkit for professionals and students.

Health, Safety and Environment John Wiley & Sons

This book contains the proceedings of the 12th KES International Conference on Sustainability and Energy in Buildings 2020 (SEB20) held in Split, Croatia, during 24 – 26 June 2020 organized by KES International. SEB20 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The aim of the conference is to bring together researchers, and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and simulation perspective. The conference formed an exciting chance to present, interact and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this book provides a useful and informative snapshot of recent research developments in the important and vibrant area of sustainability in energy and buildings.

Building Systems in Interior Design John Wiley & Sons

Emergency operations centers (EOCs) are a key component of coordination efforts during incident planning as well as reaction to natural and human-made events. Managers and their staff coordinate incoming information from the field, and the public, to support pre-planned events and field operations as they occur. This book looks at the function and role of EOCs and their organizations. The highly anticipated second edition of **Principles of Emergency Management and Emergency Operations Centers (EOC)** provides an updated understanding of the coordination, operation of EOCs at local, regional, state, and federal operations. Contributions from leading experts provide contemporary knowledge and best practice learned through lived experience. The chapters collectively act as a vital training guide, at both a theoretical and practical level, providing detailed guidance on handling each phase and type of emergency. Readers will emerge with a blueprint of how to create effective training and exercise programs, and thereby develop the skills required for successful emergency management. Along with thoroughly updated and expanded chapters from the first edition, this second edition contains new chapters on: The past and future of emergency management, detailing the evolution of emergency management at the federal level, and potential future paths. Communicating with the public and media, including establishing relations with, and navigating, the media, and the benefits this can provide if successfully managed. In-crisis communications. Leadership and decision-making during disaster events. Facilitating and managing interagency collaboration, including analysis of joint communications, and effective resource management and deployment when working with multiple agencies. Developing and deploying key skills of management, communication, mental resilience. Planning for terrorism and responding to complex coordinated terrorist attacks. Developing exercises and after-action reports (AARs) for emergency management.

Harmonisation between Architecture and Nature John Wiley & Sons

Disk contains: Lotus and Excel spreadsheets.

Standard Handbook for Electrical Engineers Sixteenth Edition

Bloomsbury Publishing USA

Lighting by Design provides guidance on where to find inspiration for lighting ideas, how to plan the technical detail and how to execute the plan to create safe, effective and beautiful schemes. Christopher Cuttle's unique three level approach uses Observation, Visualisation and Realisation as the means to achieve these aims. Cuttle is a well known figure in the UK, US and Australia and New Zealand, with a wealth of experience of both teaching and practice. This new edition is fully updated and produced in full colour with many new diagrams and photographs. It will be immensely useful to professional and student architects, interior designers and specialist lighting designers.

Routledge

This book brings together concepts from the building, environmental, behavioural and health sciences to provide an interdisciplinary understanding of office and workplace design. Today, with changes in the world of work and the relentless surge in technology, offices have emerged as the repositories of organizational symbolism, denoted by the spatial design of offices, physical settings and the built environment (architecture, urban locale). Drawing on Euclidian geometry that quantifies space as the distance between two or more points, a body of knowledge on office buildings, the concept of office and office space, and the interrelationships of spatial and behavioural attributes in office design are elucidated. Building and office work-related illnesses, namely sick building syndrome and ailments arising from the indoor environment, and the menace of musculoskeletal disorders are the alarming manifestations that critically affect employee satisfaction, morale and work outcomes. With a focus on office ergonomics, the book brings the discussion on the fundamentals of work design, with emphasis on computer workstation users. Strategic guidance of lighting systems and visual performance in workplaces are directed for better application of ergonomics and improvement in office indoor environment. It discusses the profiles of bioclimatic, indoor air quality, ventilation intervention, lighting and acoustic characteristics in office buildings. Emphasis has been given to the energy performance of buildings, and contemporary perspectives of building sustainability, such as green office building assessment schemes, and national and international building-related standards and codes. Intended for students and professionals from ergonomics, architecture, interior design, as well as construction engineers, health care professionals, and office planners, the book brings a unified overview of the health, safety and environment issues associated with the design of office buildings.

Energy Audits and Improvements for Commercial Buildings Routledge

The Intuitive Guide to Energy Efficiency and Building Improvements Energy Audits and Improvements for Commercial Buildings provides a comprehensive guide to delivering deep and measurable energy savings and carbon emission reductions in buildings. Author Ian M. Shapiro has prepared, supervised, and reviewed over 1,000 energy audits in all types of commercial facilities, and led energy improvement projects for many more. In this book, he merges real-world experience with the latest standards and practices to help energy managers and energy auditors transform energy use in the buildings they serve, and indeed to transform their buildings. Set and reach energy reduction goals, carbon reduction goals, and sustainability goals Dramatically improve efficiency of heating, cooling, lighting, ventilation, water and other building systems Include the building envelope as a major factor in energy use and improvements Use the latest tools for more thorough analysis and reporting, while avoiding common mistakes Get up to date on current improvements and best practices, including management of energy improvements, from single buildings to large building portfolios, as well as government and utility programs Photographs and drawings throughout illustrate essential procedures and improvement opportunities. For any professional interested in efficient commercial buildings large and small, **Energy Audits and Improvements for Commercial Buildings** provides an accessible, complete, improvement-focused reference.

Light-Emitting Diodes and Photodetectors Asian Development Bank

The fourth edition of the **Handbook of Human Factors and Ergonomics** has been completely revised and updated. This includes all existing third edition chapters plus new chapters written to cover new areas. These include the following subjects: Managing low-back disorder risk in the workplace Online interactivity Neuroergonomics Office ergonomics Social networking HF&E in motor vehicle transportation User requirements Human factors and ergonomics in aviation Human factors in ambient intelligent environments As with the earlier editions, the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific base, but is heavily focused on realworld applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application of the material covered.

A Handbook for Supervisors Routledge

This book provides a detailed overview of the most recent advances in the fascinating world of light-emitting diodes (LEDs), organic light-emitting diodes (OLEDs), and photodetectors (PDs). Chapters in Section 1 discuss the different types and designs of LEDs/OLEDs and their use in light output, color rendering, and more. Chapters in Section 2 examine innovative structures, emerging materials, and physical effects of PDs. This book is a useful resource for students and scientists working in the field of photonics and advanced technologies.

A Guide to Energy Efficient Lighting Routledge

The ultimate guide to the retrofitting of lighting for greater efficiency

and performance Retrofitting outdated energy-guzzling lighting components with green energy-saving alternatives is a process that promotes sustainability and offers significant benefits for businesses, contractors, and the community at large. Not only can retrofitting improve the overall quality and functionality of light, it also can make spaces safer, easier and less costly to maintain, and more comfortable to inhabit. From lighting technology to retrofit financial analysis, *Lighting Retrofit and Relighting* evaluates the latest lighting system types, then demonstrates how to apply them for the greatest functional and cost-saving benefit. This book: Discusses the recent advances in lighting equipment and retrofittable controls, for both interior and outdoor use Explains how to do a lighting audit to identify and evaluate logical retrofit choices Includes case studies of retrofits, illustrating improvements in the quality and efficacy of new lighting Demonstrates how cost savings realized over time can not only pay for new equipment but produce a return on the investment *Lighting Retrofit and Relighting* serves as an ideal reference for students or professionals—whether they are energy auditors, designers, installers, facilities managers, or manufacturers—by taking a close look at the most current lighting technology illuminating pathways toward a brighter future.

Designing with Light John Wiley & Sons

This handbook serves as a guide to deploying battery energy storage technologies, specifically for distributed energy resources and flexibility resources. Battery energy storage technology is the most promising, rapidly developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid. *Safety and Health for Engineers* Lippincott Williams & Wilkins *Understanding LED Illumination* elucidates the science of lighting for light emitting diodes. It presents concepts, theory, simulations, and new design techniques that shine the spotlight on illumination, energy efficiency, and reducing electrical power consumption. The text provides an introduction to the fundamentals of LED lamp design, and highli

Circadian Lighting Design in the LED Era Springer Nature

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.

Security Operations Management Book Sales

This book provides an overview of the basic concepts of quality, indoor lighting, and explains concepts like visual comfort, visual interest, and integrated design as they relate to the practice of lighting design. Energy-efficient lighting technologies, including LED lighting and digital control systems, and design strategies that increase visual comfort and productivity are discussed in plain language, and examined in a straightforward way to give the reader, whether an architect, interior designer, engineer, building trades professional, or student a broad understanding of the art and science of energy-efficient quality lighting.

Handbook on Battery Energy Storage System Springer

Safety and Health for Engineers, 3rd Edition, addresses the fundamentals of safety, legal aspects, hazard recognition and control, and techniques for managing safety decisions, as well as: Completely revises and updates all 38 chapters in the book New edition adds more than 110 stories and cases from practice to illustrate various topics or issues New topics on adapting to new safety concerns that arise from technology innovations; convergence of safety, health and environmental departments in many organizations; the concept of prevention through design; and emphasis on safety management systems and risk management and analysis Includes learning exercises and computational examples based on real world situations along with in-depth references for each chapter Includes a detailed solutions manual for academic adopters Covers the primary topics included in certification exams for professional safety, such as CSP/ASP

Fundamentals of Lighting John Wiley & Sons

THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century, the *Standard Handbook for Electrical Engineers* has served as the

definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers. It offers comprehensive information on the generation, transmission, distribution, control, operation, and application of electric power. Completely revised throughout to address the latest codes and standards, the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids, smart meters, renewable energy, and cogeneration plants. Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed. Featuring hundreds of detailed illustrations and contributions from more than 75 global experts, this state-of-the-art volume is an essential tool for every electrical engineer. *Standard Handbook for Electrical Engineers*, 16th Edition, covers: Units, symbols, constants, definitions, and conversion factors * Electric and magnetic circuits * Measurements and instruments * Properties of materials * Generation * Prime movers * Alternating-current generators * Direct-current generators * Hydroelectric power generation * Power system components * Alternate sources of power * Electric power system economics * Project economics * Transmission systems * High-voltage direct-current power transmission * Power system operations * Substations * Power distribution * Wiring design for commercial and industrial buildings * Motors and drives * Industrial and commercial applications of electric power * Power electronics * Power quality and reliability * Grounding systems * Computer applications in the electric power industry * Illumination * Lightning and overvoltage protection * Standards in electrotechnology, telecommunications, and information technology