

***Note:**

Complete uniformity is impossible in practice, but an acceptable standard is for the **minimum** to be at least 70% of the **maximum illumination level**.

This means, for example, that for a room with an illumination level of 200 lux, if this is taken as the minimum level, then the maximum level in another part of the room will be no higher than 714 lux as shown below.

$$200 / 0.7 = 285 \text{ lux}$$

Lighting Levels*

The CIBSE (Chartered Institute of Building Services Engineers) produces a **Code for Interior Lighting** which gives lighting requirements for areas.

This is also replicated in BS EN 12464-1:2002 **Light and lighting - Lighting of work places - Part 1: Indoor work places**

A sample is shown below.

Illuminance (lux)	Activity	Area
100	Casual seeing	Corridors, changing rooms, stores
150	Some perception of detail	Loading bays, switch rooms, plant rooms
200	Continuously occupied	Foyers, entrance halls, dining rooms
300	Visual tasks moderately easy	Libraries, sports halls, lecture theatres.
500	Visual tasks moderately difficult	General offices, kitchens, laboratories, retail shops.
750	Visual tasks difficult	Drawing offices, meat inspection, chain stores.
1000	Visual tasks very difficult	General inspection, electronic assembly, paintwork, supermarkets.
1500	Visual tasks extremely difficult	Fine work and inspection, precision assembly.
2000	Visual tasks exceptionally difficult	Assembly of minute items, finished fabric inspection.

Cibse Lighting Guide 2 2009

Maurizio Rossi



Cibse Lighting Guide 2 2009:

The Colour, Light and Contrast Manual Keith Bright, Geoffrey Cook, 2010-01-06 Endorsed by the Society of Light and Lighting this practical book offers comprehensive guidance on how colour light and contrast can be incorporated within buildings to enhance their usability The book provides state of the art clear guidance as well as a valuable information source for busy professionals involved in the design or management of new and existing environments The ways colour light and contrast are used within built environments are critical in determining how people interact with the space and how confident safe and secure they will feel when doing so They also have a major influence on a person's sense of well being and their ability to use the environment independently and without undue effort Understanding how to use colour and contrast and how they are influenced by both natural and artificial lighting is vital for all those involved in the design and management of the environments and spaces we all use In recent years there has been a considerable amount of work undertaken to further our understanding of how colour light and contrast affect emotion and sensory abilities and how they can assist or hinder people in their everyday lives Other publications consider these issues individually but The Colour Light and Contrast Manual designing and managing inclusive built environments draws knowledge and information together to produce a unique comprehensive and informative guide to how the three elements can work together to improve the design and management of environments for us all Supporting website at www.wiley.com/go/brightandcook

Building Services Design for Energy Efficient Buildings Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara, 2020-07-12 The role and influence of building services engineers are undergoing rapid change and are pivotal to achieving low carbon buildings However textbooks in the field have tended to remain fairly traditional with a detailed focus on the technicalities of heating ventilation and air conditioning HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of the urgent challenge to address climate change together with practical approaches to energy efficiency and carbon mitigation for mechanical and electrical systems in a concise manner The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail These are HVAC and electrical systems In addition the following issues are addressed background issues on climate change whole life performance and design collaboration generic strategies for energy efficient low carbon design health and wellbeing and post occupancy evaluation building ventilation air conditioning and HVAC system selection thermal energy generation and distribution systems low energy approaches for thermal control electrical systems data collection controls and monitoring building thermal load assessment building electric power load assessment space planning and design integration with other disciplines In order to deliver buildings that help mitigate climate change impacts a new perspective is required for building services engineers from the initial conceptual design and throughout the design collaboration with other disciplines This book provides a contemporary introduction and guide to this new approach for students and practitioners alike

Construction Technology 2: Industrial and Commercial Building Mike Riley, Alison Cotgrave, 2018-02-20 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

Daylighting Peter Tregenza, Michael Wilson, 2013-01-11 This authoritative and multi disciplinary book provides architects lighting specialists and anyone else working daylight into design with all the tools needed to incorporate this most fundamental element of architecture It includes an overview of current practice of daylighting in architecture and urban planning a review of recent research on daylighting and what this means to the practitioner a global vision of architectural lighting which is linked to the climates of the world and which integrates view sunlight diffuse skylight and electric lighting up to date tools for design in practice delivery of information in a variety of ways for interdisciplinary readers graphics mathematics text photographs and in depth illustrations a clear structure eleven chapters covering different aspects of lighting a set of worksheets giving step by step examples of calculations and design procedures for use in practice and a collection of algorithms and equations for reference by specialists and software designers This book should trigger creative thought It recognizes that good lighting design needs both knowledge and imagination

Metric Handbook Pamela Buxton, 2018-02-23 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 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 requirements The Metric Handbook is the unique reference for solving everyday planning problems **Metric Handbook** David Littlefield,2012-09-10 An essential reference resource for any architect or architect student the Metric Handbook is the major handbook for planning and design data For each building type the book gives basic design requirements principal dimensional data and details of relevant building regulations The book also contains information on broader aspects of design applicable to all building types such as materials acoustics and lighting and data on human dimensions and space requirements Significantly updated the new edition of this work focuses on sustainable design practice to make projects competitive within a green market As well as a full revision including additional new building types and the latest updates to regulation and practice the book features an improved new layout with color images and text to make it easier to find vital information quickly Metric Handbook is a tried and tested authoritative reference for solving everyday planning problems it is a must have for every design office desk and drawing board **Integrated Sustainable**

Design of Buildings Paul Appleby,2012-10-12 This book aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively meeting current and emerging UK and international statutory and planning requirements The book sets out a clear and understandable strategy that deals with all aspects of sustainable design and construction and the implications for delivery costs saleability and long term operation The extensive scope includes all aspects of environmental social and economic sustainability including strategies to reduce carbon emissions and the impact of climate change *Making Buildings Inclusive and Accessible 2009: Special Report* ,

How Buildings Work Huw Evans,2019-07-25 An understanding of building physics is fundamental for the design and construction of safe functional energy efficient buildings Without it occupants health and comfort is compromised energy bills become unmanageable or the building fabric itself can fail But it's not just about providing a heating source or stopping the cold coming in at the heart of building physics is a fine balancing act how much ventilation will be required for the occupants and how can that be provided without compromising the thermal performance How will the layout and fenestration affect light levels and cooling demand How Buildings Work provides construction professionals with a clear understanding of the basic mechanisms of physics and how they affect the performance and operation of buildings Heat air moisture sound light and radioactivity are explained in turn yet all the while reminding the reader that none of these phenomena can be considered in isolation when designing a building Whether you're a student trying to get your head round the basics or a seasoned practitioner looking for a quick refresher course **Circadian Lighting Design in the LED Era**

Maurizio Rossi,2019-02-06 This book explores how lighting systems based on LED sources have the ability to positively influence the human circadian system with benefits for health and well being The opening chapters examine the functioning of the human circadian system its response to artificial lighting potential health impacts of different types of light exposure and current researches in circadian photometry A first case study analyzes the natural lighting available in an urban interior

concluding that it is unable to activate the human circadian system over the entire year Important original research is then described in which systems suitable for artificial circadian lighting in residential interiors and offices were developed after testing of new design paradigms based on LED sources Readers will also find a detailed analysis of the LED products available or under development globally that may contribute to optimal artificial circadian lighting as well as the environmental sensors control interfaces and monitoring systems suitable for integration with new LED lighting systems Finally guidelines for circadian lighting design are proposed with identification of key requirements **A Whole-System**

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

Equipment for Buildings Walter T. Grondzik,Alison G. Kwok,Benjamin Stein,John S. Reynolds,2011-01-31 For more than half a century this book has been a fixture in architecture and construction firms the world over Twice awarded the AIA s Citation for Excellence in International Architecture Book Publishing Mechanical and Electrical Equipment for Buildings is recognized for its comprehensiveness clarity of presentation and timely coverage of new design trends and technologies Addressing mechanical and electrical systems for buildings of all sizes it provides design guidelines and detailed design procedures for each topic covered Thoroughly updated to cover the latest technologies new and emerging design trends and relevant codes this latest edition features more than 2 200 illustrations 200 new to this edition and a companion Website with additional resources Praxishandbuch Green Building Peter Mösle,Michaela Lambertz,Stefan Altenschmidt,Christoph

Ingenhoven,2017-12-18 Nachhaltiges Bauen wird f r Investoren Bauherren Nutzer Politik und Gesellschaft immer wichtiger Planung Bau und Betrieb von Green Buildings erfordern eine Ber cksichtigung ganz unterschiedlicher Disziplinen in den Bereichen Recht Technik und Architektur Die Autoren aus den unterschiedlichen Fachrichtungen beleuchten diese komplexen Zusammenh nge und zeigen praxistaugliche L sungen auf *101 Rules of Thumb for Low-Energy Architecture*

Huw Heywood,2021-08-31 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

The Human and Social Dimension of Urban Lightscapes

Daria Casciani, 2020-11-02 This book explores new criteria and characteristics for integrating human psychology in the design of modern urban lighting It identifies a new area of lighting design research and practice that focuses on the nocturnal urban experience in terms of people s emotional cognitive and motivational perceptions to achieve more accessible sociable and sustainable cities In turn the book compares new tools and research methodologies for tackling complex issues concerning the ties between lighting people and the city Moreover it presents a series of case studies to provide an in depth understanding of the influence of urban lighting in terms of luminous atmosphere perception positive social affect social enhancement accessibility and hospitability Lastly the book proposes a multidisciplinary qualitative and quantitative methodology for assessing the spatial experience of outdoor lighting

Office Buildings Pranab Kumar Nag, 2018-12-31

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 **Sustainable Retrofit and Facilities Management** Paul Appleby,2013-03-05

Governments across the globe are setting targets for reducing their carbon emissions For example the UK Government has committed to an eighty per cent reduction by 2050 when twenty eight million buildings that currently exist will still be standing this represents a challenge to improve the energy efficiency of more than one building per minute between now and 2050 This is a problem that needs tackling worldwide and is a challenge to both the refurbishment sector of the global construction industry and to those who own and operate existing buildings Sustainable Retrofit and Facilities Management provides comprehensive guidance to those involved in the refurbishment and management of existing buildings on minimizing carbon emissions water consumption and waste to landfill along with enhancing the long term sustainability of a building Practical guidance is provided on measures that can be used to improve the efficiency and sustainability of existing buildings through both good management and refurbishment Also explored is the relationship between the refurbishment of existing buildings facility management and the wider community infrastructure The book looks at management tools such as post occupancy evaluation building health checks energy management software green building management toolkits and green leases Illustrated throughout with case studies and examples of best practice this is a must have handbook for engineers architects developers contractors and facility managers *New Frontiers in Light Metals* L. Katgerman,Frans

Soetens,2010 Held at the Auditorium of the Eindhoven University of Technology Eindhoven the Netherlands on 23 25 June 2010 t p **Intelligent Buildings: An Introduction** Derek Clements-Croome,2013-10-08 This book introduces the concept of Intelligent Buildings to the wider construction community Edited by the Father of Intelligent Buildings Derek Clements Croome the book explains that intelligent buildings should be sustainable healthy technologically aware meet the needs of occupants and business and should be flexible and adaptable to deal with change This means the processes of planning design construction commissioning and facilities management including post occupancy evaluation are all important

Buildings comprise many systems devised by many people and yet the relationship between buildings and people can only work satisfactorily if there is an integrated team with a holistic vision **Deep Energy Retrofit** Alexander Zhivov,Rüdiger Lohse,2020-07-13 This book provides detailed information on how to set up Deep Energy Retrofits DERs in public buildings and shares in depth insights into the current status of the major technologies strategies and best practice examples of how to cost effectively combine them Case studies from the U S A and Europe show that that Deep Energy Retrofit can be achieved with a limited core technologies bundle readily available on the market Characteristics of some of these core technology measures depend on the technologies available on an individual nation s market on the minimum requirements of national

standards and on economics as determined by a life cycle cost analysis Also requirements to building envelope related technologies e g insulation levels windows vapor and water barriers and requirements for building airtightness depend on specific climate conditions This Guide provides best practice examples of how to apply these technologies in different construction situations High levels of energy use reduction using core technology bundles along with improvements in indoor climate and thermal comfort can be only achieved when a Deep Energy Retrofit adopts a quality assurance process In addition to design construction commissioning and post occupancy phases of the quality assurance process the Guide emphasizes the importance of clearly and concisely formulating and documenting the Owner s goals expectations and requirements for the renovated building during development of the statement of work Another important component of the quality assurance process is a procurement phase during which bidders qualifications their understanding of the scope of work and its requirements and their previous experience are analyzed The building sector holds the potential for tremendous improvements in terms of energy efficiency and reducing carbon emissions and energy retrofits to the existing building stock represent a significant opportunity in the transition to a low carbon future Moreover investing in highly efficient building materials and systems can replace long term energy imports contribute to cost cutting and create a wealth of new jobs Yet while the technologies needed in order to improve energy efficiency are readily available significant progress has not yet been made and best practices for implementing building technologies and renewable energy sources are still relegated to small niche applications Offering essential information on Deep Energy Retrofits the book offers a valuable asset for architects public authorities project developers and engineers alike

Whispering the Secrets of Language: An Psychological Journey through **Cibse Lighting Guide 2 2009**

In a digitally-driven world wherever displays reign great and quick interaction drowns out the subtleties of language, the profound strategies and mental nuances hidden within words usually get unheard. However, nestled within the pages of **Cibse Lighting Guide 2 2009** a captivating literary prize blinking with fresh thoughts, lies a fantastic journey waiting to be undertaken. Penned by a talented wordsmith, that wonderful opus invites viewers on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within the very fabric of each word. Within the mental depths of the moving evaluation, we shall embark upon a sincere exploration of the book is core subjects, dissect its captivating writing type, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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