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Lighting Design Basics Assessment of Solid-State Lighting, Phase Two Fundamentals of Lighting Lighting & Controls Designing with Light Building Systems in Interior Design Lighting Design & Application Hollywood Science Visual Delight in Architecture Energy Efficiency Standards for Residential & Nonresidential Buildings Sleep: A Very Short Introduction Recommended Practice for Daylighting Buildings Folie Du Jour The Design of Lighting Architectural utilities Handbook of Electrical Design Details Industrial IoT Lighting for Parking Facilities The Storyteller's Thesaurus Illuminating Engineering Society Lighting Handbook Arch. Utilities 3: Lighting & Acoustics Stage Lighting Second Edition Guidelines for Design and Construction of Hospitals and Outpatient Facilities 2014 Black Magic Make It Right Space Planning for Commercial and Residential Interiors Architectural Design Portable Handbook The Human Face of Big Data Design for Good Radical Light The SLL Lighting Handbook Light and Emotions Fundamentals of Architectural Lighting Circadian Physiology OLED Microdisplays The Majesty of the French Quarter Architectural Lighting Design Dark Skies Guideline for Security Lighting for People, Property, and Public Spaces

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Lighting & Controls Jun 25 2022 This book helps you make good lighting decisions and will be a very useful hands-on tool for anyone involved with engineering, maintenance, purchasing, specification, retrofits, remodels, and new construction for interior or exterior lighting applications. It gives very practical ways to maintain and update existing lighting systems and how to plan for the future. Key points include LED lighting, maintenance costs, achieving low power density, disadvantages of LED T8s, and human centric lighting.

Stage Lighting Second Edition Dec 07 2020 Stage Lighting: The Fundamentals is written specifically for introductory stage lighting courses. The book begins with an examination of the nature of light, perception, and color, then leads into a conversation of stage lighting equipment and technicians. Lamps, luminaires, controls/dimming, and electricity form the basis of these chapters. The book also provides a detailed explanation and overview of the lighting design process for the theatre and several other traditional forms of entertainment. Finally, the book explores a variety of additional areas where lighting designers can find related future employment, such as concert and corporate lighting, themed design, architectural and landscape lighting, and computer animation. New for this edition: enlarged full-color illustrations, photographs, light plots and examples of lighting design; updated information on LED lighting and equipment; expanded discussion of the practical use of color as a designer; expanded discussion of psychological/perceptual effects of color; new discussion of color mixing through light sources that make use of additive mixing; expanded discussion of industry professions; expanded discussion and illustrations relating to photometrics; expanded discussion and examples of control protocols and new equipment; and updated designer profiles along with the addition of still more designer profiles.

Dark Skies Jul 22 2019 Discover the best stargazing destinations with Lonely Planet's Dark Skies, the world's first guide to astrotourism. This comprehensive companion includes guides to 35 dark-sky parks, where to see the aurora, total solar eclipses, how to view rocket launches and the lockdown on commercial space flight.

Assessment of Solid-State Lighting, Phase Two Sep 28 2022 The standard incandescent light bulb, which still works mainly as Thomas Edison invented it, converts more than 90% of the consumed electricity into heat. Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light, there is potential to decrease the amount of energy used for lighting in both commercial and residential applications. Although technologies such as compact fluorescent lamps (CFLs) have emerged in the past few decades and will help achieve the goal of increased energy efficiency, solid-state lighting (SSL) stands to play a large role in dramatically decreasing U.S. energy consumption for lighting. Since the publication of the 2013 National Research Council report Assessment of Advanced Solid-State Lighting, the penetration of SSL has increased dramatically, with a resulting savings in energy and costs that were foreshadowed by that study. What was not anticipated then is the dramatic dislocation and restructuring of the SSL marketplace, as cost reductions for light-emitting diode (LED) components reduced profitability for LED manufacturers. At the same time, there has been the emergence of new applications for SSL, which have the potential to create new markets and commercial opportunities for the SSL industry. Assessment of Solid-State Lighting, Phase Two discusses these aspects of change highlighting the progress of commercialization and acceptance of SSL and reviewing the technical advances and challenges in achieving higher efficacy for LEDs and organic light-emitting diodes. This report will also discuss the recent trends in SSL manufacturing and opportunities for new applications and describe the role played by the Department of Energy (DOE) Lighting Program in the development of SSL.

The Human Face of Big Data Jun 01 2020 The authors invited more than 100 journalists worldwide to use photographs, charts and essays to explore the world of big data and its growing influence on our lives and society. Guideline for Security Lighting for People, Property, and Public Spaces Jun 20 2019

Designing with Light May 24 2022 The new edition of the popular introduction to architectural lighting design, covering all stages of the lighting design process Designing with Light: The Art, Science, and Practice of Architectural Lighting Design, Second Edition, provides students and professionals alike with comprehensive understanding of the use of lighting to define and enhance a space. This accessible, highly practical textbook covers topics such as the art and science of color, color rendering and appearance, lighting control systems, building codes and standards, and sustainability and energy conservation. Throughout the text, accomplished lighting designer and instructor Jason Livingston offers expert insights on the use of color, the interaction between light and materials, the relation between light, vision, and psychology, and more. Fully revised and updated throughout, the second edition features new chapters on design thinking, common lighting techniques, and lighting economics. Expanded sections on aesthetics, controlling LEDs, light, and health, designing with light, and color mixing luminaires are supported by new case studies, examples, and exercises. Featuring hundreds of high-quality color images and illustrations, Designing with Light: Provides systematic guidance on all aspects of the lighting design process Thoroughly covers color and light, including color perception, color rendering, and designing with colored light Explains the theory behind the practice of architectural lighting design Contains information on cost estimating, life cycle analysis, voluntary energy programs, and professional lighting design credentials Includes an instructor resource site with PowerPoint presentations, test questions, and suggested assignments for each chapter, and also a student site with flashcards, self-evaluation tests, and helpful calculators. Designing with Light: The Art, Science, and Practice of Architectural Lighting Design, Second Edition is perfect for architecture, interior design, and electrical engineering programs that include courses on lighting design, as well as professionals looking for a thorough and up-to-date desk reference.

Design for Good Apr 30 2020 The book reveals a new understanding of the ways that design shapes our lives and gives professionals and interested citizens the tools to seek out and demand designs that dignify.

The SLL Lighting Handbook Feb 27 2020

Radical Light Mar 30 2020 "A superb collection, as exciting, in many ways, as the works it chronicles."--Akira Mizuta Lippit, author of Atomic Light (Shadow Opics)

The Majesty of the French Quarter Sep 23 2019 "...highly recommended for architecture, photography, and history collections everywhere." --Library Journal "McCafferty knows how to capture the fleeting beauty of a moment." --Times Picayune For many, the French Quarter is New Orleans, yet how much do they really know about the Vieux Carré? Truman Capote wrote, "Of all secret cities, New Orleans . . . is the most secretive. . . . [Its] architecture deliberately concocted to camouflage, to mask, as at a Mardi Gras Ball, the lives of those born to live among these protective edifices." Through striking photographs and polished prose, The Majesty of the French Quarter opens the locked door and invites readers to discover a multitude of hidden marvels. Among the discovered gems is the 1828 Bourbon Street mansion of Lindy Boggs, U. S. ambassador to the Vatican and former congresswoman. Pictured are many such homes' secret, overgrown gardens where, noted Capote, "innosua and camellias contrast color, and lacing lizards, flicking their forked tongues, race along palm fronds." Also featured are rare glimpses of the antique-filled and artfully decorated interiors of some of the Quarter's most majestic homes, including that of New Orleans novelist Julie Smith. While this series has examined New Orleans as a whole and the city's Garden District in particular, the French Quarter has quietly kept her secrets to herself-until now.

Fundamentals of Architectural Lighting Dec 27 2019 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.

Sleep: A Very Short Introduction Nov 18 2021 Explores sleep disorders, describes breakthroughs in the study of sleep, and considers the impact of modern society on it.

Industrial IoT May 12 2021 The proliferation of Internet of Things (IoT) has enabled rapid enhancements for applications, not only in home and environment scenarios, but also in factory automation. Now, Industrial Internet of Things (IIoT) offers all the advantages of IoT to industry, with applications ranging from remote sensing and actuating, to de-centralization and autonomy. In this book, the editor presents the IIoT and its place during the new industrial revolution (Industry 4.0) as it takes us to a better, sustainable, automated, and safer world. The book covers the cross relations and implications of IIoT with existing wired/wireless communication/networking and safety technologies of the Industrial Networks. Moreover, the book includes practical use-case scenarios from the industry for the application of IIoT on smart factories, smart cities, and smart grids. IIoT-driven advances in commercial and industrial building lighting and in street lighting are presented as an example to shed light on the application domain of IIoT. The state of the art in Industrial Automation is also presented to give a better understanding of the enabling technologies, potential advantages, and challenges of the Industry 4.0 and IIoT. Finally, yet importantly, the security section of the book covers the cyber-security related needs of the IIoT users and the services that might address these needs. User privacy, data ownership, and proprietary information handling related to IIoT networks are all investigated. Intrusion prevention, detection, and mitigation are all covered at the conclusion of the book.

Architectural utilities Jul 14 2021

Black Magic Oct 05 2020 A "daring, urgent, and transformative" (Brené Brown, New York Times bestselling author of Dare to Lead) exploration of Black achievement in a white world based on honest, provocative, and moving interviews with Black leaders, scientists, artists, activists, and champions. "I remember the day I realized I couldn't play a white guy as well as a white guy. It felt like a death sentence for my career." When Chad Sanders landed his first job in lily-white Silicon Valley, he quickly concluded that to be successful at work meant playing a certain social game. Each meeting was drenched in white slang and the privileged talk of international travel or folk concerts in San Francisco, which led Chad to believe he needed to emulate whiteness to be successful. So Chad changed. He changed his wardrobe, his behavior, his speech—everything that connected him with his Black identity. And while he finally felt included, he felt awful. So he decided to give up the charade. He reverted to the methods he learned at the dinner table, or at the Black Baptist church where he'd been raised, or at the concrete basketball courts, barbershops, and summertime cookouts. And it paid off. Chad began to land more exciting projects. He earned the respect of his colleagues. Accounting for this turnaround, Chad believes, was something he calls Black Magic, namely resilience, creativity, and confidence forged in his experience navigating America as a Black man. Black Magic has emboldened his every step since, leading him to wonder: Was he alone in this discovery? Were there others who felt the same? In "pulverizing, educational, and inspirational" (Shea Serrano, #1 New York Times bestselling author of Basketball (And Other Things)) essays, Chad dives into his formative experiences to see if they might offer the possibility of discovering or honing this skill. He tests his theory by interviewing Black leaders across industries to get their take on Black Magic. The result is a revelatory and essential book. Black Magic explores Black experiences in predominantly white environments and demonstrates the risks of self-betrayal and the value of being yourself.

Illuminating Engineering Society Lighting Handbook Feb 09 2021 The IES Lighting Handbook is an indispensable reference for anyone involved in lighting, including practitioners, designers, architects, and engineers. It is a compendium of what is known that directly relates to lighting and lighting design. This new edition provides a new illuminance determination procedure consisting of visual age-based illuminance ranges and mesopic adaptation. Much information is conveniently summarized in tabular format and exemplified with numerous four-color photographs and illustrations. There is in-depth coverage of sustainability practices: new chapters on daylighting, controls, sustainability, commissioning and energy management Recommended Practice for Daylighting Buildings Oct 17 2021

Light and Emotions Jan 28 2020 Professional lighting design in its global dimension

Circadian Physiology Nov 25 2019 While the first edition of the critically acclaimed and highly popular Circadian Physiology offered a concise but rigorous review of basic and applied research on circadian rhythms, this newest edition provides educators with the primary textbook they need to support a course on this cutting-edge topic. Maintaining the same accessible multidisciplinary

The Design of Lighting Aug 15 2021 This fully updated edition of the successful book The Design of Lighting, provides the lighting knowledge needed by the architect in practice, the interior designer and students of both disciplines. The new edition offers a clear structure, carefully selected material and linking of lighting with other subjects, in order to provide the reader with a comprehensive and specifically architectural approach to lighting. Features of this new edition include: technical knowledge of lighting in the context of architectural design; an emphasis on imagination in architectural light and presentation of the tools necessary in practice for creative design; additional chapters on the behaviour of light and on the context of design; a strong emphasis on sustainable design and energy saving, with data and examples; analyses of actual lighting schemes and references to current standards and design guides; an up-to-date review of lamp and lighting technology, with recommendations on the choice of equipment; a revision of the calculation section, with examples and step-by-step instructions, based on recent student feedback about the book.

Lighting Design & Application Mar 22 2022

Arch. Utilities 3: Lighting & Acoustics Jan 08 2021

OLED Microdisplays Oct 25 2019 Microdisplays are displays requiring optical magnification and OLEDs (Organic Light-Emitting Diode) are self-emitting displays where each pixel includes a LED made of organic material, in general composed of small-molecule organic material. This title reviews in detail how OLED microdisplays are made as well as how they are used. All aspects from theory to application will be addressed: basic principles, display design, display fabrication, operation and performances, present and future applications. The book will be useful to anyone interested in this rapidly developing field, such as students or researchers, industry professionals (engineers, project leaders) in the field of display development/fabrication and display end-users.

Lighting for Parking Facilities Apr 11 2021

Energy Efficiency Standards for Residential & Nonresidential Buildings Dec 19 2021 Lists the California code regulations for energy efficient standards for residential and nonresidential buildings. Changes made since the 1992 version are marked with a bar in the outside margin and the index is also expanded to include many more useful terms. Changes focus on improving compliance by more clearly describing the responsibilities of each party in the compliance and construction process. Numerous charts and tables.

Folie Du Jour Sep 16 2021

Architectural Lighting Design Aug 23 2019 This book goes right to the heart of what every professional and student needs to know above all - how to effectively meet real-world lighting design challenges.

Jul 26 2022

Handbook of Electrical Design Details Jun 13 2021 A COMPREHENSIVE SOURCE OF TECHNICAL DETAILS ON ELECTRICAL POWER FROM GENERATION TO PRACTICAL APPLICATIONS Reliable, low-cost electric power is a fundamental

requirement for modern society, making possible such vital services as lighting, HVAC, transportation, communication, and data processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople. This compact, user-friendly edition updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics: * CAD for preparing electrical drawings and estimates * Basic switch and receptacle circuit wiring * Structured wiring for multimedia * Swimming pool and low-voltage lighting * Electrical surge protection An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize themselves with the latest advances—regardless of their formal education or training. Reader-helpful features in this edition include: * Up-front chapter summaries to save time in finding topics of interest. * References to related articles in the National Electrical Code. * A bibliography identifying additional sources for digging deeper. * Approximately 300 illustrations

Fundamentals of Lighting Aug 27 2022 Fundamentals of Lighting, 3rd Edition, continues to focus on the basics of lighting systems and the interrelationship of lighting and design. This new edition includes updated standards and new technologies, and an updated art program with over 300 photographs of global interiors and new lighting systems.

Building Systems in Interior Design Apr 23 2022 Building Systems in Interior Design takes an entirely new approach to teaching this essential topic for Architects, Designers and Building Engineers. Written to prepare students for the real world and packed with practical examples, the book will foster an understanding of specific issues that are critical to those features of technical systems that most directly affect design. The book stresses the ever-present nature of these systems: they are everywhere, all the time. Taking a design oriented view, it outlines what can and cannot be done, and provides the student with the know-how and confidence to defend and promote their design intent when working with other industry professionals. Covering lighting, HVAC, plumbing and much more, the book is packed with key features to aid learning including: Numerous illustrations, plans and photographs Key terms defined in an extensive glossary Chapter introductions that identify key concepts and chapter summaries to re-visit those key concepts Professional design tips And a detailed bibliography and web links This book is not only a core text for interior design, building systems engineering and architecture students but will become an essential working reference through their careers.

Lighting Design Basics Oct 29 2022 A visual, real-world guide to professional lighting design Lighting Design Basics is the essential guide to this basic, but difficult-to-master aspect of interior design. Offering fundamental concepts and prescriptive techniques in a highly visual format, this book provides clear, practical guidance on utilizing the latest in lighting techniques and technology to showcase a space without sacrificing utility. Covering more than 25 different design scenarios with in-depth rationale for proposed solutions, this book provides insightful distribution diagrams, floor plans, and details for lighting installation and construction. Real-world case studies illustrate lighting design in residential, commercial, healthcare, education, and hospitality settings, and skill-building exercises offer practice for real-world projects as well as NCIDQ and NCARB exam preparation. This new third edition includes new instructor support materials, coverage of computer calculation software, and in-depth discussion on the latest in LED lighting. Lighting is changing, both in the technology itself, and in the way a designer must approach it. This book provides immersive instruction through real-world settings, and practical guidance suited for immediate application in everyday projects. Get up-to-date on the latest methods and technology for lighting design Examine more than 25 design scenarios for different types of spaces Complete exercises to hone your skills or prepare for the NCIDQ or NCARB Create simple lighting designs and collaborate with architects on complex projects Lighting can make or break a space. Improper lighting lends a space an uncomfortable feel, can induce headaches or eyestrain, and can even be hazardous—but thoughtfully designed and executed lighting adds that extra element so often missing from typical spaces. Lighting Design Basics shows you how to elevate any space through the fundamental tools and concepts of professional lighting design.

Guidelines for Design and Construction of Hospitals and Outpatient Facilities 2014 Nov 06 2020 This product of the Facility Guidelines Institute (FGI) provides minimum standards for design and construction of hospitals and outpatient facilities. The standards for long-term care facilities will appear in a new document for 2014; please see the entry for Guidelines for Design and Construction of Residential Health, Care, and Support Facilities. Included in the Guidelines for Hospitals and Outpatient Facilities is information on the planning, design, construction, and commissioning process and facility requirements for both hospitals and outpatient facilities. Included are general hospitals, psychiatric hospitals, and rehabilitation facilities as well as new chapters on children's and critical access hospitals. Outpatient facilities covered include primary care facilities; outpatient surgery facilities; birth centers; urgent care centers; mobile units; outpatient psychiatric and rehabilitation centers; facilities for endoscopy, dialysis, and cancer treatment; and a new chapter on dental facilities. In addition, the 2014 Guidelines includes new material on safety risk assessments and medication safety zones; increased requirements for commissioning infrastructure systems; and updated requirements for surgery, imaging, endoscopy, and dialysis facilities as well as primary care facilities and freestanding emergency facilities.

Visual Delight in Architecture Jan 20 2022 Visual Delight in Architecture examines the many ways that our lives are enriched by the presence of natural daylight and window views within our buildings. It makes a compelling case that daily exposure to the rhythms of daylight is essential to our health and well-being, tied to the very genetic foundations of our physiology and cognitive function. It describes all the subtlety, beauty, and pleasures of well-daylit spaces and attractive window views, and explains how these are woven into the fabric of both our everyday sensory experience and enduring cultural perspectives. All types of environmental designers, along with anyone interested in human health and well-being, will find new insights offered by Visual Delight in Architecture. The book is both accessible and provocative, full of personal stories and persuasive research, helping designers to gain a deeper understanding of the scientific basis of their designs, scientists to better grasp the real-world implications of their work, and everyone to more fully appreciate the role of windows in their lives.

Architectural Design Portable Handbook Jul 02 2020 Integrate key information to facilitate optimal design solutions Essential for any working architect, Architectural Design Portable Handbook guides you through projects every step of the way, summarizing, synthesizing, and systematizing the core tasks of design. Developed by noted architect Andy Pressman, this handy take-along reference is certain to become an indispensable tool. You'll find value-added features such as quick tips and case studies, quotes from leading architects, checklists, and a customizable layout that encourages you to add your own helpful notes and reminders. And that's in addition to expert, time- and error-sparing information on: * Design strategies * Site analysis methods * The use of CAD and other graphics * Working with clients * User-needs evaluation * Data compilation * Concept development * Exploring design alternatives * Computing and design * Presentations * More!

The Storyteller's Thesaurus Mar 10 2021 Writers, game designers, teachers, and students—this is the book you've been waiting for! Written by storytellers for storytellers, this volume offers an entirely new approach to word finding. Browse the pages within to see what makes this book different:

Space Planning for Commercial and Residential Interiors Aug 03 2020 * A single-source, on-the-job resource to help interior designers and architects solve any space planning problem * Simplifies code compliance (International Building Code, ADA, and more) * Includes hundreds of plans and details for every building type * Checklists and guidelines throughout

Make It Right Sep 04 2020 More than 1 million viewers in Canada watch Mike Holmes' television show, Holmes on Homes, every week. Thousands more see him at his personal appearances and visit his website, looking for advice on reno-gone-wrong. Mike Holmes is Canada's most trusted contractor, a crusader with a mission to expose botched renovations—and now the author of a bestselling book that has shipped over 60,000 copies in its hardcover edition. Mike has taken his professional expertise and tell-it-like-it-is style and turned it into the guide no homeowner should be without. Make It Right walks readers through a renovation from start to finish, from the process of finding a reliable contractor to understanding the legalities of renovation. Mike explains the inner workings of a house, covers the most popular reno projects and describes the most common pitfalls. Packed with informative sidebars, checklists, diagrams and photographs, all showing what to expect from contractors and tradespeople, and how to keep every reno running on time and on budget, Make It Right is the book you need to read before you plan a renovation. Be smart. Take charge. Get it right the first time.

Hollywood Science Feb 21 2022 In this book, a scientist and dedicated film enthusiast discusses the portrayal of science in more than one hundred films, including science fiction, scientific biographies, and documentaries. Beginning with early films like Voyage to the Moon and Metropolis and concluding with more recent offerings like The Matrix, War of the Worlds, A Beautiful Mind, and An Inconvenient Truth, Sidney PerKowitz questions how much faith we can put into Hollywood's depiction of scientists and their work, how accurately these films capture scientific fact and theory, whether cataclysms like our collision with a comet can actually happen, and to what extent these films influence public opinion about science and the future. Bringing together history, scientific theory, and humorous observation, Hollywood Science features dozens of film stills and a list of the all-time best and worst science-fiction movies.