

Building User Guide

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User's Guide to the National Electrical Code? 2008 Edition - Brooke Stauffer 2009-10-07

Give your students a firm foundation in NEC? basics with the 2008 Edition of User's Guide to the National Electrical Code. This full-color, illustrated text has been completely revised to include new chapter features that guide students through the 2008 Code, reinforcing key principles, such as the difference between GFPE and GFCI equipment. With this text, students will understand the intent behind the most critical NEC? requirements, the way NEC? chapters and articles work together, and how the NEC? is related to other electrical standards and building codes. User's Guide is the key to getting the right answers faster and more efficiently.

Building User Research Teams - Steve Bromley 2020-02-15

Successful products require good decisions. Reliable information about what users are trying to achieve, their context and whether they can and will use your product is essential to making good product decisions. User researchers run robust and repeatable studies to find that information, but they need some tools and support to get started. Building User Research Teams is a practical guide on how to build a research team of any size, starting from convincing colleagues why they need a user research team, through the development and implementation of the tools and processes needed, to running high quality studies and

mapping the future development of a growing research team. Learn how to: Advocate for user research inside your organisation Budget for and equip a research team Create the templates and tools needed to run research Run studies that are impactful and accurate Optimise your research team's workflow Grow a research team long-term This book is useful for: Companies looking to hire their first researcher New research leaders establishing a team Independent researchers in companies looking to maximise their impact Designers, product managers and UX professionals wanting to incorporate research best practice into their work

Drupal User's Guide - Emma Jane Hogbin 2011-09-15

Finally, Drupal Made Easy: A Step-By-Step Guide from Planning to Finished Site The open source content management system Drupal offers amazing flexibility, sophistication, and power. The catch? Many first-time users find it difficult to get started, and most Drupal books don't help with the initial stages. Drupal™ User's Guide is different: easy to use, fun to read, practical, and complete! Long-time Drupal site developer Emma Jane Hogbin guides you through every step of building sites with Drupal, from installation and site planning through launching your first site. Drawing on her experience teaching thousands of beginners, she covers both Drupal and Web design tasks, showing exactly how they fit together. Drupal™ User's Guide shows how to use Drupal 7's

newest improvements to build more modern, manageable sites for any business or organization. Hogbin covers crucial topics other Drupal books ignore, including search engine optimization and accessibility. Walk through installing Drupal on Mac OS X and Linux Web servers Get comfortable with Drupal 7's new administrative interface Build a basic site in minutes Create S.M.A.R.T. (Specific, Measurable, Attainable, Realistic, Timely) site goals Audit your existing content so you can make the most of it Explore, choose, and customize Drupal themes Walk through building a community site with private discussion area Build a complete business association directory site Use Web forms to capture and display any kind of content Take advantage of Drupal's powerful Views module Choose the right Drupal and third-party modules to build virtually any site Optimize your site for Google and other search engines Use advanced techniques to improve your visitors' experiences If you want to create great sites with Drupal-with no hassle, no confusion, and no degree in computer science-this is the book for you!

MicroStrategy Analytics Express User Guide - MicroStrategy Product Manuals 2013-10-31
The Express User Guide provides instructions to get started with MicroStrategy Express. It includes an introduction to dashboard analysis, creation, sharing, and management, as well as creating and managing users and teams.

Visual Simulation - Stephen Richard John Sheppard 1989

Treats fundamentals and characteristic problems, from underlying principles to planning, preparation, presentation, and evaluation. Provides: extensive graphic examples (including simulated and real views) which show how to avoid costly mistakes; methods of simulating the environmental context; information on preparing simulations for various audiences; spotting inaccuracies; policies, procedures, rules; costs and other constraints.

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User's Guide for Building and Operating Environmental Satellite Receiving Stations - Jeff Wallach 1997

LEED Reference Guide for Building Design

and Construction - US Green Building Council 2016-07-01

New Code of Estimating Practice - The Chartered Institute of Building 2018-04-06

The essential, authoritative guide to providing accurate, systematic, and reliable estimating for construction projects—newly revised Pricing and bidding for construction work is at the heart of every construction business, and in the minds of construction consultants' poor bids lead to poor performance and nobody wins. New Code of Estimating Practice examines the processes of estimating and pricing, providing best practice guidelines for those involved in procuring and pricing construction works, both in the public and private sectors. It embodies principles that are applicable to any project regardless of size or complexity. This authoritative guide has been completely rewritten to include much more contextual and educational material as well as the code of practice. It covers changes in estimating practice; the bidding process; the fundamentals in formulating a bid; the pre-qualification process; procurement options; contractual arrangements and legal issues; preliminaries; temporary works; cost estimating techniques; risk management; logistics; resource and production planning; computer-aided estimating; information and time planning; resource planning and pricing; preparation of an estimator's report; bid assembly and adjudication; pre-production planning and processes; and site production. Established standard for the construction industry, providing the only code of practice on construction estimating Prepared under the auspices of the Chartered Institute of Building and endorsed by a range of other professional bodies Completely rewritten since the 7th edition, to include much more contextual and educational material, as well as the core code of practice New Code of Estimating Practice is an important book for construction contractors, specialist contractors, quantity surveyors/cost consultants, and for students of construction and quantity surveying.

Sustainability and Evidence-Based Design in the Healthcare Estate - Michael Phiri 2013-11-18
This work aims to deepen our understanding of the role played by technical guidelines and tools for the design, construction and operation of

healthcare facilities, ultimately establishing the impact of the physical environment on staff and patient outcomes. Using case studies largely drawn from the UK, Europe, China and Australasia, design approaches such as sustainability (e.g. targets for energy efficiency, carbon neutrality, reduction of waste), evidence-based design (EBD), and Post-Project Evaluation (PPE) are examined in order to identify policies, mechanisms and strategies that can promote an integrated learning environment that in turn supports innovation in healthcare.

Sustainable Refurbishment - Sunil Shah
2012-07-16

This guide to green 'retro-fitting' for corporate real estate, facility managers and occupiers struggling to reduce their building's carbon footprint will help in the planning and management of a sustainable refurbishment programme. Facilities managers have a key role in improving and maintaining a building's sustainability credentials over its whole life - through benchmarking and developing improvement strategies, energy efficiency measures and installation of low carbon technologies, as well as through waste minimisation and appropriate material use. The first part of the book gives the context, providing the structure and linkage between the other chapters, together with an overview on sustainable development and refurbishment projects separately and the value gained from a sustainable refurbishment. Part 2 details the regulatory and financial drivers, together with market pressures, and provides an overview of where this is leading together with the implications for sustainable refurbishment. Part 3 provides technical support on carbon measures, helping to determine the feasibility of good practices as part of the refurbishment. Included is a review of energy efficiency, renewable and low carbon technologies and embodied carbon to enable lifecycle carbon calculations, together with the necessary behavioural change aspects needed to embed the changes. Linkages and benefits between the technologies will be highlighted. Part 4 reviews refurbishment from a wider environmental perspective, understanding the challenges and opportunities that exist for particular developments from a materials, water,

biodiversity and transport perspective.

Throughout the book, checklists are provided on typical activities and good practice that should be performed. These are expanded through relevant case studies and examples to show-case previous good practices and lessons learnt. The book is structured to allow a matrix approach, with Parts 3 and 4 providing the technical information necessary to deliver a sustainable refurbishment; with sector relevance and best practice with case studies throughout the book. Facilities Management Manuals - J. Armstrong
2002

One of the recurrent themes in facilities management is the failure of the design team to understand the needs of the building users. The end-user frequently feels aggrieved at the perceived lack of foresight applied by the design team. There have been moves to bridge the gap between construction needs and end-user needs, with the introduction of the CDM Regulations, and various research initiatives. This has been primarily aimed at the construction industry rather than the building user. CIRIA has produced this guide to focus on the needs of the building user. The framework presented brings a clear understanding of the capabilities of premises, performance limits, costs, servicing maintenance and breakdown procedures, and the long-term management strategy. This guide provides facility managers and other property operators with an improved understanding of the information required to successfully operate and maintain their facilities. Clear and specific guidelines are provided for a standard structure and content for the facilities management manual, which can be regularly updated during the life of the facility. Templates are provided for data presentation, together with a sample manual and a model specification for preparing a manual.

Architecture & Sustainable Development (vol.1) - Magali Bodart 2011-07

This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries.

User-Centered Design - Travis Lowdermilk
2013-05-15

Looks at the application design process,

describing how to create user-friendly applications.

The Emulation User's Guide - Kenneth Stevens 2008-08-29

The Emulation User's Guide has everything you need to know about getting started with computer, console and arcade emulation on the Apple Macintosh computer and PC. This guide includes the history of emulation on the Internet and covers some of the legalities involving emulation of these systems.

Office User Guide for MicroStrategy 9.5 - MicroStrategy Product Manuals 2015-02-01

The MicroStrategy Office User Guide covers the instructions for using MicroStrategy Office to work with MicroStrategy reports and documents in Microsoft? Excel, PowerPoint, Word, and Outlook, to analyze, format, and distribute business data.

Building Services Design Management - Jackie Portman 2014-08-04

Building services refers to the equipment and systems that contribute to controlling the internal environment to make it safe and comfortable to occupy. They also support the requirements of processes and business functions within buildings, for example manufacturing and assembly operations, medical procedures, warehousing and storage of materials, chemical processing, housing livestock, plant cultivation, etc. For both people and processes the ability of the building services engineering systems to continually perform properly, reliably, effectively and efficiently is of vital importance to the operational requirements of a building. Typically the building services installation is worth 30-60% of the total value of a contract, however existing publications on design management bundles building services engineering up with other disciplines and does not recognise its unique features and idiosyncrasies. Building Services Design Management provides authoritative guidance for building services engineers responsible for the design of services, overseeing the installation, and witnessing the testing and commissioning of these systems. The design stage requires technical skills to ensure that the systems are safe, compliant with legislative requirements and good practices, are cost-effective and are coordinated with the needs of the other design

and construction team professionals. Covering everything from occupant subjectivity and end-user behaviour to design life maintainability, sequencing and design responsibility the book will meet the needs of building services engineering undergraduates and postgraduates as well as being an ideal handbook for building services engineers moving into design management.

Renewable Energy Guide for Highway Maintenance Facilities - Robert Lorand 2013

"TRB's National Cooperative Highway Research Program (NCHRP) Report 751: Renewable Energy Guide for Highway Maintenance Facilities offers guidance for the application of renewable energy technologies to the heating and cooling, lighting, and electrical power requirements of highway maintenance facilities."--Publisher's description.

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.

Edline User Guide for Teachers: Building Class Websites - Ryan Bremner

Teacher's Guide for the Blackboard Edline Content Management System (CMS) used to build Class Websites for Manatee County Public Schools.

CIBSE Guide H: Building Control Systems - Cibse 2007-06-01

'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

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.

Corporate Real Estate Asset Management - Barry P. Haynes 2010

Real Estate is not only one of the most valuable assets for a business in terms of visual representation of the company, but also one of the most costly assets. It is therefore important for those studying and practising in Real Estate and Property Management to know how to minimise costs and maximise profit in order to manage these assets efficiently. Corporate Real Estate Management considers the commercial property market from the perspective of the business occupier, offering contemporary solutions to problems and innovative and inspiring added value action plans. It raises the awareness of how real estate can support the business, transform the workplace and impact upon people and productivity. For anybody beginning a career in Real Estate Management, this book considers the theory and concepts behind real estate asset management, whilst offering strategies and practical advice on how these should be implemented in a business context. •Written from the perspective of the occupier to provide strategies to be used in practice, which illustrate theory to aid learning •International case studies from Helsinki, Hong Kong, and Prague give necessary insight for global business •Aligns Estates Management, Facilities Management, Asset Management and business strategy to offer a more rounded understanding for potential managers

The Startup Owner's Manual - Steve Blank 2020-03-17

More than 100,000 entrepreneurs rely on this book for detailed, step-by-step instructions on building successful, scalable, profitable startups. The National Science Foundation pays hundreds of startup teams each year to follow the process outlined in the book, and it's taught at Stanford, Berkeley, Columbia and more than 100 other leading universities worldwide. Why? The Startup Owner's Manual guides you, step-by-step, as you put the Customer Development process to work. This method was created by renowned Silicon Valley startup expert Steve Blank, co-creator with Eric Ries of the "Lean Startup" movement and tested and refined by

him for more than a decade. This 608-page how-to guide includes over 100 charts, graphs, and diagrams, plus 77 valuable checklists that guide you as you drive your company toward profitability. It will help you:

- Avoid the 9 deadly sins that destroy startups' chances for success
- Use the Customer Development method to bring your business idea to life
- Incorporate the Business Model Canvas as the organizing principle for startup hypotheses
- Identify your customers and determine how to "get, keep and grow" customers profitably
- Compute how you'll drive your startup to repeatable, scalable profits.

The Startup Owner's Manual was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release and should not be considered a new or updated product.

Life-Cycle Cost Models for Green Buildings - I.M. Chethana S. Illankoon 2020-10-29

Life-Cycle Cost Models for Green Buildings: With Optimal Green Star Credits illustrates the tools and methods for developing a life-cycle cost model that incorporates developer constraints while maximizing the number of credit points achieved. The book identifies the interdependencies among various credits in the Green Star environmental rating system. Afterwards, life-cycle cost is calculated by considering six main central business districts (CBDs) of Australia. The net present value (NPV) technique is used to calculate life-cycle costs. Further, a sensitivity analysis is also carried out for selected credits to identify the changes to life-cycle cost to the changes in discount rate. Once all the life-cycle cost data is calculated, this book illustrates the development of the proposed model using a Java application which allows users to evaluate each key criterion of green buildings separately. The book is designed to provide ample knowledge of the various options available to get green building certification and the further implications in terms of life-cycle. Provides cost saving and management advice for keeping a green building project operating on time and budget throughout their life-cycle. Expertly explains the various options available for gaining green building certification. Allows users to build life-cycle cost models which is unique to the project at hand

Green Building Certification Systems - Thilo Ebert 2012-12-10

Certification systems for buildings aim to make sustainability transparent for the general public and economically feasible for investors. Several hundred systems have been developed since around 1990.

RIBA Job Book - Nigel Ostime 2019-07-25

The RIBA Job Book is the Royal Institute of British Architects' long-established and recognised standard reference for running construction projects. This major new update fully reflects the new RIBA Plan of Work 2013 and contemporary working practice. It embraces themes of collaboration within the project team, better briefing, advances in information technology and BIM, and the continued importance of sustainability including valuable detail on a range of 'cradle to grave' processes in a building project. Applicable to all forms of procurement and to all sizes and types of project, the RIBA Job Book provides a systematic operational framework that is comprehensive in scope and easy-to-follow, and which examines step-by-step the key obligations of the architect or lead consultant. Setting out all the actions to be undertaken throughout a project, it includes invaluable checklists, notes and practical guidance.

Handbook on Constructing Composite Indicators: Methodology and User Guide - OECD 2008-08-22

A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.

The Sustainable Use of Concrete - Koji Sakai 2012-08-30

Cement-based concrete has excellent properties as a construction material, and the raw materials of cement rocks, and limestone and clay are bountiful. Yet its production generates high quantities of CO₂, making it a potentially unsustainable material. However, there are no alternatives to concrete and steel as basic methods for development of soci

A User's Guide to the Development Process - 1986

Sustainable Buildings and Infrastructure - Annie

R. Pearce 2017-12-14

The second edition of *Sustainable Buildings and Infrastructure* continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector, including both buildings and infrastructure systems. As a textbook, it is aimed at students taking courses in construction management and the built environment, but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms. Case studies, best practices and highlights of cutting edge research are included throughout, making the book both a core reference and a practical guide.

LEED Lab - Patricia Andrasik 2021-11-22

Facility performance evaluations inform the long-term life of a building and do not end with design or construction. To this aim, Patricia Andrasik created *LEED Lab*, in collaboration with the US Green Building Council, an increasingly popular international interdisciplinary collegiate laboratory course, which utilizes campus buildings as demonstration sites to facilitate the green assessment of existing buildings. *LEED Lab: A Model for Sustainable Design Education* uses the LEED O+M building rating system to measure and achieve performance-driven campus facilities in which the readers work and operate. The book explains in simple terms the theory, tasks, tools and techniques necessary for credit implementation and achievement, and includes case studies and exercises for practical application in each chapter. Readers will learn the conceptual scientific framework used to understand existing operational performance and how to quantify sustainable synergies, create green campus policies with administrators, and understand systems such as energy and water in a research-based application. The entire manual is accompanied by a vast online 'Teaching Toolkit' to provide helpful educational resources such as syllabi, lectures, examinations, assignments, Individual Student Progress Presentation (ISSP) templates, web resources, and much more. An excellent guide for undergraduate or graduate students enrolled in *LEED Lab* or a similar campus building assessment course, as well as

construction or architectural professionals and facility managers, this manual navigates the complexities of using a green building diagnostic tool such as LEED O+M towards greater environmental literacy.

BIM Handbook - Rafael Sacks 2018-07-03

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The *BIM Handbook, Third Edition* provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the *BIM Handbook, Third Edition* guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Small Projects Handbook - Nigel Ostime 2021-02-25

This hands-on, no-nonsense guide to running smaller projects - most under £250,000 in value - will become your 'bible' in day-to-day practice. Smaller practices often find it hard to turn a profit as they spend too much time and money, especially on the design stages, trying to compete and are unsure as to what they can

safely dispense with whilst still being rigorous and delivering quality. This book provides reassurance as to how to achieve great results on a budget, utilising stripped-back and efficient solutions, while following the principles and stages of the RIBA Plan of Work. Each chapter provides: simple step-by-step guidance to the key tasks in that stage of the Plan of Work including inputs, outputs, stage activities and sustainability checkpoints in-text features which break down complex tasks and highlight best practice with pragmatic, real world advice including 'tips', 'warnings' and guidance on forms and templates inspiring case studies of small projects that document the architect's experience of the process guidance at each Plan of Work stage on the relevant practice issues that will help you to run your small project more effectively. Designed as a project handbook for smaller and medium sized architectural practices, it is also invaluable for Part 3 students getting to grips with how projects are run within the RIBA Plan of Work framework. Everybody in the project team - including clients, contractors and consultants - will find this a handy guide to the project process, full of useful insights and solutions.

Handbook of Energy Efficiency in Buildings - Umberto Desideri 2018-11-12

Handbook of Energy Efficiency in Buildings: A Life Cycle Approach offers a comprehensive and in-depth coverage of the subject with a further focus on the Life Cycle. The editors, renowned academics, invited a diverse group of researchers to develop original chapters for the book and managed to well integrate all contributions in a consistent volume. Sections cover the role of the building sector on energy consumption and greenhouse gas emissions, international technical standards, laws and regulations, building energy efficiency and zero energy consumption buildings, the life cycle assessment of buildings, from construction to decommissioning, and other timely topics. The multidisciplinary approach to the subject makes it valuable for researchers and industry based Civil, Construction, and Architectural Engineers. Researchers in related fields as built environment, energy and sustainability at an urban scale will also benefit from the books integrated perspective. Presents a complete and

thorough coverage of energy efficiency in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation

Code of Practice for Project Management for Construction and Development - CIOB (The Chartered Institute of Building) 2014-09-15
The first edition of the Code of Practice for Project Management for Construction and Development, published in 1992, was groundbreaking in many ways. Now in its fifth edition, prepared by a multi-institute task force coordinated by the CIOB and including representatives from RICS, RIBA, ICE, APM and CIC, it continues to be the authoritative guide and reference to the principles and practice of project management in construction and development. Good project management in construction relies on balancing the key constraints of time, quality and cost in the context of building functionality and the requirements for sustainability within the built environment. Thoroughly updated and restructured to reflect the challenges that the industry faces today, this edition continues to drive forward the practice of construction project management. The principles of strategic planning, detailed programming and monitoring, resource allocation and effective risk management, widely used on projects of all sizes and complexity, are all fully covered. The integration of Building Information Modelling at each stage of the project life is a feature of this edition. In addition, the impact of trends and developments such as the internationalisation of construction projects and the drive for sustainability are discussed in context. Code of Practice will be of particular value to clients, project management professionals and students of construction, as well as to the wider construction and development industries. Much of the information will also be relevant to project management professionals operating in other commercial spheres.

Passive Energy Strategies for Mediterranean Residential Buildings - Aurora Monge-Barrio 2018-02-09

This book presents an approach to energy-efficient building design, which takes into account the most important challenges in

climate change mitigation and adaptation in Southern Europe. It outlines a specific approach related to residential buildings and their intergenerational and vulnerable occupants, such as ageing population and users in fuel poverty. It also focuses on the use of passive energy measures throughout the year, and on pursuing a realistic and affordable approach to the efficient rehabilitation of resilient residential buildings. In addition, the book presents case studies that include surveys, monitoring, and simulation of residential buildings in Spain and other Southern European representative locations, in order to go further on the study of this challenging topic.

Building for the future - Great Britain:
National Audit Office 2007-04-20

This report examines the extent to which government departments and executive agencies are meeting targets to make their new buildings and major refurbishments more sustainable. Each year departments and agencies spend in the region of £3 billion on these projects, and if sustainability is handled well, it can and should provide better value for money in the long term. Key findings include: i) government is failing to meet the sustainability standards it has set for the construction and refurbishment of buildings on the government estate, as well as for sustainable operations targets set for carbon emissions, energy and water consumption; and ii) various barriers are hindering progress towards more sustainable buildings, including the fragmentation of policy responsibility among government bodies for improving sustainable construction and refurbishment, the absence of a coherent approach to monitoring progress and ensuring compliance, and the widespread perception of a conflict between sustainability and value for money.

Net Zero Energy Buildings - Linda Reeder
2016-03-31

This book presents 18 in-depth case studies of net zero energy buildings—low-energy building that generate as much energy as they consume over the course of a year—for a range of project types, sizes, and U.S. climate zones. Each case study describes the owner's goals, the design and construction process, design strategies, measurement and verification activities and results, and project costs. With a year or more of

post-occupancy performance data and other project information, as well as lessons learned by project owners and developers, architects, engineers, energy modelers, constructors, and operators, each case study answers the questions: What were the challenges to achieving net zero energy performance, and how were these challenges overcome? How would stakeholders address these issues on future projects? Are the occupants satisfied with the building? Do they find it comfortable? Is it easy to operate? How can other projects benefit from the lessons learned on each project? What would the owners, designers, and constructors do differently knowing what they know now? A final chapter aggregates processes to engage in and pitfalls to avoid when approaching the challenges peculiar to designing, constructing, and owning a net zero energy building. By providing a wealth of comparable information, this book which will flatten the learning curve for designing, constructing, and owning this emerging building type and improve the effectiveness of architectural design and construction.

User's Guide to the National Electrical Code
- H. Brooke Stauffer 2002-02-16

The first User's Guide to the National Electrical Code(R) explains basic principles of the NEC(R)! NFPA's 2002 Edition details and explains the basic NEC principles you must know to work effectively with the world's most widely used building code! Written by H. Brooke Stauffer, Director of Codes & Standards at the National Electrical Contractor's Association, User's Guide to the National Electric Code is the ideal starting point for electrical apprentices, and a useful reference for experienced pros. Launch your career in the electrical field-or get the NEC background you've been missing! Learn how to find your way around the 2002 NEC through text explaining: What's covered in each chapter of the NEC. Use it alongside your 2002 Code!How the National Electrical Code works with other NFPA electrical standards and building codes The NEC consensus development process and the significance of TIAs and Formal Interpretations The User's Guide offers expert analyses of technical requirements-the kind of information it can take years to acquire: The difference between GFPE and GFCI equipment

Why terminals for ungrounded hot conductors must be color-distinguishable from the silver or white used for grounded conductors. Reasons to use a multiwire branch circuit. The NEC tells you how to install it—only the User's Guide tells you why. Find examples of TVSS (transient voltage surge suppressors) and hundreds of other explanations.

Design Tools for Evidence-Based Healthcare Design - Michael Phiri 2014-12-05

The growing movement towards evidence-based healthcare design has largely emphasised a change of culture and attitudes. It has advocated for new ways of working, but until now, it has not focused on equipping healthcare clients and their designers with the practical means to exploit the potential benefits from evidence-based architectural design. Development of indicators and tools that aid designers and users of the built environments in thinking about quality enhances the design process to achieve better outcomes. Importantly, design tools can support managers and designers through end-

user involvement and an increased understanding of what patients and staff expect from their healthcare facilities. They can facilitate the creation of patient-centred environments which improve user satisfaction. Design Tools for Evidence-Based Healthcare Design: Discusses the tools that are being used to achieve, design quality and excellence within the context of NHS procurement systems such as PFI, Procure21 and others. Collates information that increases our understanding of these tools, in order to be able to make the best use of them. Clarifies where, during the various stages of a building's life (from inception, design, construction, occupation and re-use), these tools should be used in order to derive the benefits possible from evidence-based design. Provides in one place an authoritative reference publication that will act as a memory, a user guide and manual for these design tools. Illustrated with case studies from throughout the UK and written by a well-known expert in the field, this book will provide essential reading for anyone involved in healthcare design.