

Leed Nc 2009 Reference Guide

An Up-to-Date Guide to the Latest LEED-New Construction Guidelines Fully revised for version 3.0 of the LEED-New Construction rating system (LEED-2009), this GreenSource book helps you acquire the skills needed to apply LEED-NC to sustainable construction projects. The Engineering Guide to LEED-New Construction, second edition, offers comprehensive coverage of the environmental systems and impacts on which many of the LEED-NC subcategories are based. Detailed

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equations and exercises in the book can be used to perform the calculations outlined in LEED-NC.

Valuable information on real-world applications of LEED-NC in military, low-impact development (LID), and other sectors is included in this practical resource. THE ENGINEERING GUIDE TO LEED-NEW CONSTRUCTION COVERS:

- Introduction to the U.S. Green Building Council's LEED-NC rating system
- Sustainable sites
- Water efficiency
- Energy and atmosphere
- Materials and resources
- Indoor environmental quality
- Innovation in design and regional priorities

A

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systematic view of green and minimum program requirements
Department of Defense

sustainable construction and indoor air quality (IAQ) Low-impact development

The Construction Chart Book presents the most complete data available on all facets of the U.S. construction industry: economic, demographic, employment/income, education/training, and safety and health issues.

The book presents this information in a series of 50 topics, each with a description of the subject matter and corresponding charts and graphs. The contents of The Construction

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Chart Book are relevant to owners, contractors, unions, workers, and other organizations affiliated with the construction industry, such as health providers and workers compensation insurance companies, as well as researchers, economists, trainers, safety and health professionals, and industry observers.

An Expert Guide to Developing More-Durable and Cost-Effective Asphalt Pavements Written by distinguished experts from countries around the world, Modeling of Asphalt Concrete presents in-depth coverage of the current materials,

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methods, and models used for asphalt pavements. Included is state-of-the-art information on fundamental material properties and mechanisms affecting the performance of asphalt concrete, new rheological testing and analysis techniques, constitutive models, and performance prediction methodologies for asphalt concrete and asphalt pavements. Emphasis is placed on the modeling of asphalt mixes for specific geographic/climatic requirements. In light of America's crumbling infrastructure and our heavy usage of asphalt as a paving material, this timely

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reference is essential for the development of more-durable and cost-effective asphalt materials for both new construction and rehabilitation. Harness the Latest Breakthroughs in Asphalt Concrete Technology:

- Asphalt Rheology •
- Constitutive Models •
- Stiffness Characterization •
- Models for Low-Temperature Cracking •
- Models for Fatigue Cracking and Moisture Damage •
- Models for Rutting and Aging

LEED (Leadership in Energy and Environmental Design) is the most important trend of development and it is revolutionizing the construction industry. It

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has gained tremendous momentum and has a profound impact on our environment.

From this book, you will learn how to

1. Pass LEED AP exam.
2. Register and certify a building for LEED certification.
3. Understand the intent for each LEED prerequisite and credit.
4. Calculate points for LEED credit.
5. Identify the responsible party for each prerequisite and credit.
6. Earn extra credit (Exemplary Performance) for LEED.
7. Implement the local codes and building standards for prerequisite and credit.
8. Get points for categories not yet clearly defined by USGBC.

Most of the existing

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books on LEED and LEED AP are too expensive and too complicated to be practical and helpful. This pocket guide demystifies LEED and uncovers the secrets, codes and jargons for LEED as well as the true meaning of "going green." It will set up a solid foundation and fundamental framework of LEED for you. It covers every aspect of LEED-NC in plain and concise language, and introduces it to ordinary people. This pocket guide is small and easy to carry around. You can read it whenever you have a few extra minutes. It is an indispensable book for ordinary people, developers,

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contractors, architects,
landscape architects, civil,
mechanical, electrical and
plumbing engineers, interns,
drafters, designers and
other design
professionals. You may be
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[here to view](#) [Click here to](#)
[view LEED BD&C Exam Guide](#)
[Green Building Design and](#)
[Delivery](#)
[For LEED for New](#)
[Construction, LEED for Core](#)
[and Shell, and LEED for](#)
[Commercial Interiors](#)
[Quantitative Phase Imaging](#)
[of Cells and Tissues](#)
[Certifiably Sustainable?](#)
[Approaches, Methods and](#)

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Perspectives
Sustainable Design
Strategies Towards Net Zero
Architecture
Guidebook to the LEED
Certification Process

Firmly rooted in the theory and practice of sustainable development, this book offers a comprehensive resource on sustainability, focusing on both industrialized and developing nations. Implementing Campus Greening Initiatives: Approaches, Methods and Perspectives is an attempt to promote and disseminate the work being done in this field by universities around the world. The need to integrate the principles and

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concepts of green campuses and sustainability into the core of students' educational experiences, from high school to college or university, has now been broadly recognized. By doing so, we can ensure that the students of today and tomorrow will acquire the knowledge, skills, attitudes and values needed to create a more sustainable economy and social environment.

"This book will be the official reference guide to Sustainable Sites Initiative Rating System, the first national rating system for sustainable landscapes"--

Provides information on careers in building environmentally friendly

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structures, discussing employers, working conditions, workplaces, and training.

"The premise of the conference was to assess the impact and relevance of contemporary paradigms in architectural research including substantial developments in technology, public consciousness and economic pressures."--Page 4 of printed paper wrapper.

Assessing sustainability -

International system comparison -

Economic impact of certifications

Green Building Certification Systems

A Guide to Building Information Modeling for Owners, Designers,

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Engineers, Contractors, and Facility Managers The Law of Green Buildings Sustainable Architectural Design A Complete Guide to the Principles, Strategies, and Best Practices for Sustainable Landscapes USGBC LEED Green Associate Study Guide

Cutting-edge quantitative phase imaging techniques and their applications Filled with unique, full-color images taken by advanced quantitative phase imaging (QPI), Quantitative Phase Imaging of Cells and Tissues thoroughly explores this innovative technology and

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its biomedical applications. An introductory background on optical imaging and traditional optical microscopy is included to illustrate concept development. The book explains how various visualization modalities can be obtained by numerical calculations. This authoritative resource reveals how to take full advantage of the unprecedented capabilities of QPI, such as rendering scattering properties of minute subcellular structures and nanoscale fluctuations in live cells. Coverage includes:
Groundwork Spatiotemporal

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field correlations Image characteristics Light microscopy Holography Point scanning QPI methods Principles of full-field QPI Off-axis full-field methods Phase-shifting techniques Common-path methods White light techniques Fourier transform light scattering (FTLS) Current trends in QPI

"This study guide is a resource to help you prepare for the LEED Green Associate Examination. It summarizes the critical points of green design, construction, and operations. To help you master its content, the guide has been packaged with the Green Building and LEED Core Concepts Guide, one of

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the reference documents for the LEED Green Associate Exam. Within each category of the guide, you will find a variety of study tools, including category reviews, review questions and worksheets, learning activities, and practice questions"--P. 1.

The one-stop guide for choosing a green building rating system Today, sustainability is a growing concern for the architects, designers, builders, and owners of commercial and residential buildings.

Meeting the requirements of a rating system provides a metric to evaluate and set priorities. But the variety

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and complexity of methods available to assess the eco-friendliness of a building can seem overwhelming. Guide to Green Building Rating Systems informs readers about the rating system selection process. Comparing essential issues such as cost, ease of use, and building performance, this book offers solid guidance that will help readers find the rating system that best fits their needs. This easy-to-follow reference includes: An overview of the major national rating systems, including LEED®, Green Globes®, the National Green Building Standard, and ENERGY STAR® An in-depth

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look at each rating system, including its evolution, objectives, point structure, levels of certification, benefits, and shortcomings How the ratings systems work for different types of buildings—commercial, multi-family residential, and single-family residential construction Illustrated case studies from different climate regions with project descriptions, cost data, and lessons learned by design teams, constructors, and owners An overview of local, regional, and international rating systems Guide to Green Building Rating Systems demystifies complex material, making this book

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an essential reference for building professionals engaged in, or wishing to pursue, sustainable building practices.

This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building.

Kuppaswamy Iyengar shows you how to get it right the first time, use free energy systems, and utilise technologies that minimize fossil fuel use. Each chapter has a sustainable

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design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation

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systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECH, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—on the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement. Study Materials, Sample Questions, Mock Exam, Building LEED Certification (LEED-NC) and Going Green 21st Century Security and

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CPTED

Handbook of Green Building
Design and Construction
Retail Supplement

LEED Reference Guide for
Building Design and
Construction

Green Interior Design and
Construction

Implementing Campus Greening
Initiatives

TRB's Airport Cooperative
Research Program (ACRP)
Report 42: Sustainable
Airport Construction

Practices explores a set of
best practices, methods,
procedures, and materials
that if implemented during
construction may have a
sustainable, positive
economic, operational,

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environmental, or social effect. The report includes the collection of sustainable airport construction practices in a searchable, filterable spreadsheet format on a CD-ROM, which is packaged with the report. The CD-ROM included as part of ACRP Report 42 is also available for download from TRB's website as an ISO image--Ch. 1. Introduction -- Ch. 2. Data Collection -- Ch. 3. Data Collection -- Ch. 4. Organization of the Collection -- Ch. 5. How to Use the Collection -- Ch. 6. Case Studies. 3500 photographs. Over 380 genera. More than 3700

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species and cultivars. With *Dirr's Hardy Trees and Shrubs* and *Dirr's Trees and Shrubs for Warm Climates*, Michael Dirr set the gold standard for horticultural reference. This season, Timber Press is proud to publish his seminal work, *Dirr's Encyclopedia of Trees and Shrubs*, the most comprehensive visual reference on this important subject. From majestic evergreens to delicate vines and flowering shrubs, Dirr features thousands of plants and all the essential details for identification, planting, and care, plus full-color photographs showing a tree's habit in

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winter, distinctive bark patterns, fall color, and more. In a class by itself for its quality of information, the best researched recommendations for hardiness in the industry, beautiful photography, and Dirr's own preeminence as a master plantsman, Dirr's Encyclopedia of Trees and Shrubs is a critical addition to any garden library.

The classic reference for high-performance green building delivery systems No longer just a buzzword, sustainable construction is going mainstream—and soon will be the norm. Revised to

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reflect the latest developments of the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system and other tools, Sustainable Construction: Green Building Design and Delivery, Third Edition guides construction and design professionals through the process of developing commercial and institutional high-performance green buildings in today's marketplace. Charles Kibert provides an introduction to green building, covering the theory, history, and state of the industry as well as best practices in building

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procurement and delivery systems. From green building and Green Globes assessments to building hydrological systems and materials and product selection, this comprehensive text covers all of the factors involved with sustainable construction. In a clear and accessible writing style, Kibert addresses issues so that the reader can think critically and independently as part of the cutting edge in green building. The Third Edition includes up-to-date coverage of: The latest developments leading up to LEED version 4 Carbon neutral design and carbon accounting Green Globes and

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international building assessment systems The Living Building Challenge Environmental product declarations (EPDs) as the norm for green building products The trends in net-zero energy building design and policies Broad enough to cover the needs of faculty and students and detailed enough to serve as a professional reference, Sustainable Construction, Third Edition is a must for the builder/owner and construction manager looking to take advantage of the opportunities in this rapidly evolving field, the designer looking to be LEED certified, or anyone

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interested in
sustainability.

A Must-Have for Landscape
Architecture: A Holistic
Garden Design Guide with
Architectural and
Horticultural Insight, and
Ideas from Famous Gardens in
Major Civilizations
Sustainable Construction for
Engineers
BIM Handbook
Role of Electrical
Contractors as "value-added"
Members of the LEED®-NC
Project Teams with Emphasis
on Innovation in Design
Credits
LEED V4 Edition (2016)
LEED v4 Practices,
Certification, and
Accreditation Handbook

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Greening Existing Buildings
Understanding LEED, Green
Globes, Energy Star, the
National Green Building
Standard, and More

Essential information for the design of housing Building Type Basics for Housing, Second Edition is your one-stop reference for the essential information you need to confidently begin the design process and successfully complete the design for housing, large or small, on time and within budget. Members of the award-winning design firm Goody Clancy share their firsthand knowledge to guide you through all aspects of designing and building residences. The book presents knowledgeable, real-world advice

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for architects, planners, engineers, and developers to create excellent residential design projects for a variety of housing types. This updated edition offers a new collection of detailed project examples that represent the best in today's housing designs, including more information on sustainable design and a fresh look at mixed-use developments increasingly popular in urban areas. It walks the reader through the guidelines, planning concepts, and lessons learned—from single-family detached homes and townhouses to multi-family, mid-rise, and high-rise buildings. Coverage also includes essential topics such as community planning, site layout,

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zoning and code issues, parking strategies, and the selection of building materials. This new edition: Asks and answers twenty questions that frequently arise in the early phases of a residential commission Provides a number of residential examples—new to this edition—from the last decade, covering the full range of housing densities Is illustrated with numerous photographs, diagrams, plans, and sections Shows how to obtain financing, approvals, and support for developments Includes new information on sustainability, which is incorporated throughout the book This conveniently organized quick reference is an invaluable guide for busy, dedicated professionals who

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want to get moving quickly as they embark on a new project. Like every Building Type Basics book, it provides authoritative, up-to-date information instantly and saves professionals countless hours of research.

Green Interior Design and ConstructionRetail SupplementLEED Reference Guide for Building Design and ConstructionLEED V4 Edition (2016)The Engineering Guide to LEED-New Construction: Sustainable Construction for Engineers (GreenSource)Sustainable Construction for EngineersMcGraw Hill Professional LEED v4 Practices, Certification,

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and Accreditation Handbook, Second Edition, provides users with a practical user-friendly roadmap that presents the guidelines for selecting the LEED v4 rating system to better fit a particular project (e.g. LEED for Building Design and Construction, LEED for Operations and Maintenance, LEED for Interior Design and Construction, LEED for Building Design and Construction, or LEED for Neighborhood Development). In addition, this comprehensive handbook carefully explains the modifications in the credentialing process, including the new 3-Tier system requiring applicants to first take the LEED™ Green Associate exam, followed by the LEED™

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Professional Accreditation exam. Practical strategies and guidelines for applying LEED v4 project certification Annotated tables, checklists, charts, and references to "quantum leap," LEED v4 Includes case studies with special focus is put on key areas where most errors occur Demystifies LEED v4 requirements for project as well as personal/professional LEED Certification Appendixes including sample exam questions, acronyms and abbreviations and a glossary Consumption of goods and services represents a growing share of global economic activity. In the United States, consumption accounts for more than two-thirds

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of gross domestic product. This trend of increasing consumption has brought with it negative consequences for the environment and human well-being. Global demand for energy, food, and all manner of goods is on the rise, putting strains on the natural and human capital required to produce them. Extractive industries and production processes are prominent causes of species endangerment. Modern economies are underpinned by substantial energy consumption, a primary contributor to the current climate crisis. Expanding international trade has led to many economic opportunities, but has also contributed to unfair labor practices

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and wealth disparities. While certain processes have improved or become more efficient, and certain practices have been outlawed or amended, the sheer scale of global consumption and its attendant impacts continue to be major challenges we face in the transition to sustainability. Third-party certification systems have emerged over the last 15 years as a tool with some promise. There has been anecdotal evidence of success, but to date the overall impact of certified goods and services has been small. Moreover, definitions of sustainable vary across sectors and markets, and rigorous assessments of these programs have been few and far between. In order to take a

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step in learning from this field of practice, the National Academies' Science and Technology for Sustainability Program held a workshop to illuminate the decision making process of those who purchase and produce certified goods and services. It was also intended to help clarify the scope and limitations of the scientific knowledge that might contribute to the economic success of certified products. The workshop, summarized in this volume, involved presentations and discussions with approximately 40 invited experts from academia, business, government, and nongovernmental organizations. Jobs as Green Builders and

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Planners

*Regulatory and Legal Issues in
Design, Construction, Operations,
and Financing*

*LEED GA Exam Guide (3rd Large
Format Edition)*

*The Role of Third-Party
Certification Systems: Report of a
Workshop*

*Sustainable Airport Construction
Practices*

*Guide to Green Building Rating
Systems*

Concepts and Applications

Congress has an ongoing interest in ensuring that the 500,000 buildings and other structures owned and operated by the Department of Defense (DOD) are operated effectively in terms of

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cost and resource use. Section 2830 of the National Defense Authorization Act for fiscal year requires the Secretary of Defense to submit a report to the congressional defense committees on the energy-efficiency and sustainability standards used by DOD for military construction and major renovations of buildings. DOD's report must include a cost-benefit analysis, return on investment, and long-term payback for the building standards and green building certification systems, including: (A) American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 189.1-2011 for the Design of High-

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Performance, Green Buildings Except Low-Rise Residential. (B) ASHRAE Energy Standard 90.1-2010 for Buildings Except Low-Rise Residential. (C) Leadership in Energy and Environmental Design (LEED) Silver, Gold, and Platinum certification for green buildings, as well as the LEED Volume certification. (D) Other American National Standards Institute (ANSI) accredited standards. DOD's report to the congressional defense committees must also include a copy of DOD policy prescribing a comprehensive strategy for the pursuit of design and building standards across the department that include specific energy-

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efficiency standards and sustainable design attributes for military construction based on the cost-benefit analysis, return on investment, and demonstrated payback required for the aforementioned building standards and green building certification systems. Energy-Efficiency Standards and Green Building Certification Systems Used by the Department of Defense for Military Construction and Major Renovations summarizes the recommendations for energy efficiency.

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design,

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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

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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

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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.

This guide walks the reader step by step through the LEED 2009 for New Construction process, offering advanced techniques for estimating the actual costs, in time and money, for building green. It serves as an essential primer to price-assessment strategies for high-performance commercial and institutional projects, which include office buildings, high-rise residential buildings, government buildings, recreational facilities, manufacturing plants, and

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laboratories. Written by an author with more than twenty years of green construction experience on more than 80 LEED registered or certified projects, the book provides real-world case studies used to demonstrate the techniques and concepts revealed in the book, covers project documentation, and provides strategies to help the reader understand the real costs and scheduling implications associated with sustainable building.

Examining the most important issues in achieving the goal of building more efficient and less damaging buildings, this book highlights the significant statutes and regulations as well as other

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legal issues that need to be considered when advising clients in the development, construction, financing, and leasing of a green building. Topics include federal incentive programs, financing, alternative energy, site selection, land use planning, green construction practices and materials, emerging legal issues, and the effects of climate change on planning and architectural design.

LEED, BREEAM, and Green Globes
LEED AP Exam Guide
LEED Reference Guide for Homes
Design and Construction, V4
MODELING OF ASPHALT
CONCRETE
Building Science

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Sustainable Construction
Energy-Efficiency Standards and
Green Building Certification
Systems Used by the Department
of Defense for Military
Construction and Major
Renovations

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.

Technology is the key driver of business. May it be airport, ICT, smart governance, manufacturing or plantations. Technology management opens up opportunities

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for the business and help achieve leadership positions. This collection of papers provides a glimpse of issues faced in different sectors. These papers also should inspire more researchers to expand the scope of the subject itself.

A multi-disciplinary approach to transportation

planning fundamentals The Transportation Planning Handbook is a comprehensive, practice-oriented reference that presents the fundamental concepts of transportation planning alongside proven techniques. This new fourth edition is more strongly focused on serving the needs of all users, the role of safety in the planning

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process, and transportation planning in the context of societal concerns, including the development of more sustainable transportation solutions. The content structure has been redesigned with a new format that promotes a more functionally driven multimodal approach to planning, design, and implementation, including guidance toward the latest tools and technology. The material has been updated to reflect the latest changes to major transportation resources such as the HCM, MUTCD, HSM, and more, including the most current ADA accessibility regulations. Transportation planning has historically followed

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the rational planning model of defining objectives, identifying problems, generating and evaluating alternatives, and developing plans. Planners are increasingly expected to adopt a more multi-disciplinary approach, especially in light of the rising importance of sustainability and environmental concerns. This book presents the fundamentals of transportation planning in a multidisciplinary context, giving readers a practical reference for day-to-day answers. Serve the needs of all users Incorporate safety into the planning process Examine the latest transportation planning software packages Get up to date on

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the latest standards, recommendations, and codes Developed by The Institute of Transportation Engineers, this book is the culmination of over seventy years of transportation planning solutions, fully updated to reflect the needs of a changing society. For a comprehensive guide with practical answers, The Transportation Planning Handbook is an essential reference.

"From this book, you will learn how to: 1. Pass the LEED Green Associate exam; 2. Use LEED exam preparation strategies, study methods, tips, suggestions, mnemonics, and exam tactics to improve your exam performance; 3.

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Effectively understand, digest, and retain your LEED knowledge; 4. Understand the process of registering and certifying a building for LEED; 5. Understand the scope, main intent, core concepts and strategies, as well as identify the regulations, recognition, and incentives for each major LEED category; 6. Identify the strategies for case studies; 7. Identify the synergy in case studies; 8. Implement the most important LEED related codes and building standards; 9. Get points for categories not yet clearly defined by the USGBC"--P. [4] of cover.

Guide to the LEED Green Associate Exam

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***The Engineering Guide to LEED-
New Construction: Sustainable
Construction for Engineers
(GreenSource)***

***Reflecting Upon Current Themes in
Architectural Research
V4 Edition
Building Type Basics for Housing***

***Designing for Critical
Infrastructure Protection and
Crime Prevention, Second Edition***

*The leading green building
reference, updated with the latest
advances in the field Sustainable
Construction is the leading
reference for the design,
construction, and operation of
high performance green
buildings. With broad coverage*

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including architecture, engineering, and construction, this book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for

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each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best

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practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

Handbook of Green Building Design and Construction: LEED, BREEAM, and Green Globes,

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Second Edition directly addresses the needs of building professionals interested in the evolving principles, strategies, and concepts of green/sustainable design. Written in an easy to understand style, the book is updated to reflect new standards to LEED. In addition, readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure, data centers, warehouses, and existing buildings. Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case

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studies that draws on over 35 years of personal experience from across the world

The concept of Crime Prevention Through Environmental Design (CPTED) has undergone dramatic changes over the last several decades since C. Ray Jeffery coined the term in the early 1970s, and Tim Crowe wrote the first CPTED applications book. The second edition of 21st Century Security and CPTED includes the latest theory, knowledge, and practice of CPTED as it relates to the current security threats facing the modern world: theft, violent crime, terrorism, gang activity, and school and workplace violence. This significantly expanded edition includes the latest coverage of proper lighting,

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building design—both the interior and exterior—physical security barriers, the usage of fencing, bollards, natural surveillance, landscaping, and landscape design. Such design concepts and security elements can be applied to address a wide variety of threats including crime prevention, blast mitigation, and CBRNE threat protection. Authored by one of the U.S.'s renowned security experts—and a premiere architect and criminologist—the book is the most comprehensive examination of CPTED and CPTED principles available. This edition includes a complete update of all chapters in addition to five new chapters, over 700 figure illustrations and photos, numerous tables and

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checklists, and a 20-page color plate section. This latest edition: Features five new chapters including green and sustainable buildings, infrastructure protection, and premises liability Presents step-by-step guidelines and real-world applications of CPTED concepts, principles and processes—from risk assessment to construction and post-occupancy evaluation Outlines national building security codes and standards Examines architectural surety from the perspective of risk analysis and premises liability Demonstrates CPTED implementation in high-security environments, such as hospitals, parks, ATMs, schools, and public and private sector buildings A practical resource for

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architects, urban planners and designers, security managers, law enforcement, CPTED practitioners, building and property managers, homeland security professionals, and students, 21st Century Security and CPTED, Second Edition continues to serve as the most complete and up-to-date reference available on next-generation CPTED practices today.

The essential guide to environmental control systems in building design For over 25 years Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture has provided architects and design professionals the knowledge and tools required to

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design a sustainable built environment at the schematic design stage. This Fifth Edition offers cutting-edge research in the field of sustainable architecture and design and has been completely restructured based on net zero design strategies. Reflecting the latest developments in codes, standards, and rating systems for energy efficiency, Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture includes three new chapters: Retrofits: Best practices for efficient energy optimization in existing buildings Integrated Design: Strategies for synergizing passive and active design Design Tools: How to utilize the best tools to

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and principles of the thermal, lighting, and acoustic determinants of building design in four integrated sections. The first section explores the thermal building environment and the principles of thermal comfort, translating these principles into conceptual building design solutions. The author examines the heat flow characteristics of the building envelope and explains steady state design methods that form the basis of most building codes. He discusses the sun as a natural heat

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source and describes the principles of active and passive solar building design solutions. The second section introduces the scientific principles of light, color, and vision, stressing the importance of daylight in building design, presenting the Daylight Factor design concept and methodology, and discussing glare conditions and their avoidance. It also addresses artificial lighting, delving into the prominent role that electricity plays in the

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production of light by artificial means and comparing the efficacy and characteristics of the various commercially available light sources in terms of the energy to light conversion ratio, life span, available intensity range, color rendition properties, and cost. The third section deals with the various aspects of sound that impact the design of the built environment, discussing the nature of sound as a physical force that sets any medium through which it travels

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into vibration and laying the foundations for the treatment of sound as an important means of communication as well as a disruptive disturbance. The final section discusses the foundational concepts of ecological design as a basis for addressing sustainability issues in building design solutions. These issues include the embedded energy of construction materials, waste management, preservation of freshwater and management of graywater, adoption of passive solar

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principles, energy saving measures applicable to mechanical building services, and the end-of-lifecycle deconstruction and recycling of building materials and components. Covers the fundamental building science topics of heat, energy, light and sound Takes a logical and didactic approach, tracing the historical roots of building science Includes summaries of new technologies in solar energy and photovoltaic systems Features a section on the principles of sustainable architecture

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