

Sustainable Landscape Construction A Guide To Green Building Outdoors Second Edition

What makes building materials sustainable? How to reduce the amount of embodied energy in building constructions? And how does a Life Cycle Analysis work? These are questions which are becoming increasingly more common in the context of sustainable construction. The DETAIL Green Book "Sustainable Construction Techniques" offers a thorough guide to ecological building design and sustainable construction methods, which will be particularly valuable for architects. The authors provide an overview of the most relevant databases and certification standards for building products and illustrate how a Life Cycle Analysis is conducted. They also identify key ways of optimising the planning process in line with ecological criteria, while offering advice for the selection of building materials and elements. Detailed documentation from five buildings constructed in Europe and North America serve to illustrate the associated assessment processes in this book.

An up-to-date revision of the successful text and reference work on site planning. Several chapters have been expanded, revised and renamed, and there are new chapters on specifications, sports facilities and playgrounds, rooftop gardens, and development design guidelines. Chapters follow phases in the development of a site plan and include material explaining site selection and analysis, land use and circulation, visual design factors and natural elements in site organization, contours, grading and earthwork calculations, site drainage, alignment of horizontal and vertical curves, and details in the landscape. The presentation follows the well-received format of previous editions, covering resource analysis, erosion control and soil loss, and circulation relating to the automobile, bicycle, pedestrian, and handicapped. Includes material on the use of trees in site planning and on residential development concepts. Constructed wetlands are gaining worldwide acceptance as effective, low-cost, and low-impact alternatives to unsightly, high-impact wastewater treatment facilities. The creative involvement of today's planners, landscape architects, developers, environmental engineers, and public officials is helping to maximize the potential of these wetland habitats—from their aesthetics to their multiple uses as water treatment plants, wildlife refuges, and recreational or educational facilities. Yet, to date, the literature has paid no attention to these aspects, focusing instead on the technical side of wetlands construction and function. *Constructed Wetlands in the Sustainable Landscape* is the first book to integrate aesthetic design and planning issues with the technical aspects of wetlands engineering. Renowned landscape architect Craig S. Campbell and engineer Michael H. Ogden clearly demonstrate how the successful development and management of multifunctional, sustainable wetland habitats depend on harnessing the knowledge and working principles of a number of disciplines. Richly illustrated with real-world case studies, the book: Covers the concept of sustainable development and the nature of wetland processes. Discusses designs for new and existing municipal and small community wastewater treatment facilities. Contains examples of on-site planning for, and management of, stormwater renovation, single-family residential systems, and multiple-use systems. Examines landscape engineering and planning for ponds, urban wildlife, and ecological art. Clearly written and accessible

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to nonengineers and nonscientists, *Constructed Wetlands in the Sustainable Landscape* is a crucial guide for landscape architects, environmental engineers, planners, developers, and others responsible for the design and management of our built environment.

Praised by Doug Tallamy as "an important new tool to our native plant libraries," this go-to guide is perfect for gardeners of all skill levels looking to add sustainable native flora to any horticultural project east of the Mississippi River Valley. The digital edition of *Essential Native Trees and Shrubs* has been updated and revised and now has zoom capability and is completely searchable. Gleaned from the authors' 75 years of landscaping experience, this user-friendly reference offers suggestions on species selection based on a plant's performance, aesthetic appeal, and wide range of adaptability. Expert authors Tony Dove and Ginger Woolridge's valuable resource is organized for fast and confident tree and shrub selections for specific landscape applications, and is full of vivid four-color photographs, graphs, and practical tips. A sound and giftable volume for gardeners and landscapers from New England through the Carolinas, from the east coast to the Mississippi River, including Georgia and into northern Florida. "This is an authoritative catalog, organized by a range of categories: those that have attractive bark or are evergreen, those that have showy flowers or are wind, salt or drought tolerant." —New York Times Summer Reading List for The Great Outdoors "An important new tool to our native plant libraries. . . Beautifully illustrated, even the well-informed gardener will find this a valuable reference." —Doug Tallamy, author of *Bringing Nature Home*, co-author of *The Living Landscape*, and Chair and Professor of the department of entomology and wildlife ecology at the University of Delaware "Few books give such well-researched detail...This book should be a required reference for nurserymen and landscape designers." —Mark Weathington, Director, JC Raulston Arboretum at NC State University "FINALLY! In a thoughtful, organized and simple format, this book illustrates how to build better landscapes, gardens, and environmentally sensitive ecologies. This is a long overdue book and it has my absolute endorsement." —Eric D. Groft, Principal/Vice President, Oehme van Sweden, Landscape Architecture "Essential Native Trees and Shrubs for the Eastern United States makes a great addition to the library of every serious gardener, landscape designer/architect, land manager and other plant-related professional." —Margaret Shillingford, Education Programs Specialist, Mt. Cuba Center

Access to the entire range of design and construction data

Save money and energy while adding natural beauty to your home.

Winner of the 2017 EDRA Great Places Award (Research Category) Winner of the 2017 VT ASLA Chapter Award of Excellence (Communications Category) *The Renewable Energy Landscape* is a definitive guide to understanding, assessing, avoiding, and minimizing scenic impacts as we transition to a more renewable energy future. It focuses attention, for the first time, on the unique challenges solar, wind, and geothermal energy will create for landscape protection, planning, design, and management. Topics addressed include: Policies aimed at managing scenic impacts from renewable energy development and their social acceptance within North America, Europe and Australia Visual characteristics of energy facilities, including the design and planning techniques for avoiding or mitigating impacts or improving visual fit Methods of assessing visual impacts or energy projects and the best practices for creating and

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using visual simulations Policy recommendations for political and regulatory bodies. A comprehensive and practical book, *The Renewable Energy Landscape* is an essential resource for those engaged in planning, designing, or regulating the impacts of these new, critical energy sources, as well as a resource for communities that may be facing the prospect of development in their local landscape.

"The second edition of *Sustainable Landscape Construction* has been updated to include the most important development and latest scientific research in the field. - It has been expanded to provide more ideas for designing, building, and maintaining environmentally sensitive landscapes."--Jacket.

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

Construction in the Landscape describes the impact of construction on the land and landscape where it takes place. Geographical coverage is necessarily global to reflect the great variation both in people's economic and social needs and in the shortage or abundance of natural resources. Part I introduces both land resources, whether used for agriculture, human settlement or mineral extraction or conserved as scenery, wildlife habitat or for the undefined needs of future generations; and construction, its products, skills, processes and impacts on land resources. Part II describes specific forms of civil engineering - from landform adaptation, through dams and river control works, coastal construction and transport infrastructure to particular types of structure such as bridges, towers and power stations, or the layout of complete settlements. Part III deals with regional planning of construction and land use in different geographical circumstances - from fine scenery, through rural countryside to city and suburban development - and to the sort of land arrangements that may be sustainable for an increased but hopefully more civilized human population a century hence.

Creating Thermal Comfort and Energy Efficiency Microclimatic Landscape Design shows designers how to work with nature to create climatically pleasant spaces for human activities. With remarkable clarity, it covers both the scientific background and the design techniques needed for shaping spaces that increase comfort and reduce energy consumption. This comprehensive, environmentally-sensitive guide: Presents the basic principles of microclimatology and explains how objects in the landscape affect climate to create microclimates Describes methods for modifying the key variables in a microclimate, including radiation, wind, temperature, humidity, and precipitation Shows how to create successful, comfortable spaces under a wide variety of climatic conditions Explains energy budgets and the effects of landscape on energy use in buildings Includes useful formulas for determining human thermal comfort, estimating solar radiation absorbed by a person, and estimating wind in a given landscape For landscape architects, architects, contractors, and planners, *Microclimatic Landscape Design* is a concise, practical, and indispensable guide to improving the comfort of outdoor spaces and reducing the heating or cooling loads on buildings.

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This complete guide to the evaluation, selection, and use of sustainable materials in the landscape features strategies to minimize environmental and human health impacts of conventional site construction materials as well as green materials. Providing detailed current information on construction materials for sustainable sites, the book introduces tools, techniques, ideologies and resources for evaluating, sourcing, and specifying sustainable site materials. Chapters cover types of materials, both conventional and emerging green materials, environmental and human health impacts of the material, and detailed strategies to minimize these impacts. Case studies share cost and performance information and lessons learned.

Handbook of Green Building Design and Construction: LEED, BREEAM, and Green Globes, 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 studies that draws on over 35 years of personal experience from across the world

The all-inclusive reference to starting and operating a landscape architecture firm The Professional Practice of Landscape Architecture, Second Edition is completely revised to keep up with the latest developments driving the day-to-day operation of a successful private-practice landscape architecture office. Whether helping a landscape architecture student identify a career track, providing direction on starting a new office, guiding an owner seeking to jumpstart a stagnant or fledgling business, or assisting a landscape architect-in-training study for the national Landscape Architecture Registration Exam (LARE), this single-source blueprint is the key to prospering in this dynamic field. This new edition features: Indispensable information for practicing landscape architects, including professional ethics, finances, office administration, marketing and promotion, and project management An updated look at government regulatory laws, federal tax administration, sustainable design, and LEED certification Strategies for using the Internet, computer software, and technology to market and manage a firm Examples of professional contract templates Case study profiles of landscape architecture firms Requirements for professional registration and criteria for taking the national exam This comprehensive and practical reference combines real-world experience with the highest professional standards to instruct the reader on business concepts. Expertly organized and easy to follow, The Professional Practice of Landscape Architecture, Second Edition continues to be the one source that landscape architects need to direct all facets of their practice. This efficiency-boosting resource gives you fast access to 350 of the most

commonly used site construction details. Details for curbs, steps, lighting fixtures, walls, and much more are ready to be copied from the convenient spiral-bound, lie-flat format. In addition, this manual offers you a clear view of each detail both in section and in a photograph of a sample installation. To further simplify and speed up your design and adaptation work, each clear, standard-scaled detail is accompanied by full data on cost, CSI Masterformat reference, applications, installation, intensity of use and substrate constraints, maintenance and climatological requirements, and other relevant considerations. Perfect for on-site consultation or desktop at-a-glance reference, as well as time-saving adaptation to documents, *Site Construction Details Manual* gives landscape, design, and construction professionals the comprehensive and up-to-date selection of details they need, right where they need it. Any way you look at it, this all-in-one detail anthology is an invaluable on-the-job toolÑone that youÕll definitely want to keep within reach. And it's a handy companion to the popular *Landscape Construction Details* CD-ROM!

The third title in the CSIRO Gardening Guide series, *Sustainable Gardens* by Roger Spencer and Rob Cross shows how horticulture can contribute towards a more sustainable future. Written for home gardeners, professional horticulturists, landscapers, and all those passionate about cultivated landscapes, this book examines the steps we can take towards harmonising gardening activity with the cycles of nature. Two outstanding botanists from the Royal Botanical Gardens in Melbourne, Roger and Rob have produced a genuine gardening bible for our times. They show how every gardener – both professional and amateur – can contribute positively to environmental stewardship. Gardens may be consumers of resources, but the negative effects of this consumption can be minimised and can be offset by some of the positive contributions gardens make. Roger and Rob explain the connections between human activity, resource depletion, and environmental degradation. They show how to conduct an audit of gardening practices, materials, and results so that every gardener can measure the impact he or she is having on nature. They show: how to minimise the impacts on nature of our consumption of water, materials and energy in the garden; how to make gardens more environmentally friendly through design, construction and maintenance phases; the importance of biodiversity and how horticulture can help protect natural systems; and the role that gardening can play in alleviating the environmental impacts of food production. Checklists are provided so that gardeners can ensure they are taking the most sustainable path through each phase of gardening – design, construction, maintenance. The book ends with a guide round an existing garden that combines physical beauty with sustainability, and discusses future trends for sustainable horticulture. In an increasingly urbanised world, parks and gardens are our main point of contact with nature. If we can maximise the environmental benefits of our gardens, public spaces and landscapes, we will make a huge contribution to sustainable living. This book is the first to show us how.

SUPERB EXECUTION RELIES UPON RIGOROUS PROJECT

DOCUMENTATION A project will only be built as well as it is documented. This publication focuses on the key documentation needs of the landscape architectural design and construction documentation process. That includes both "design documentation" and "construction documentation" as well as all that which occurs in the transition from one phase to the other. Documentation requirements include those components necessary to explore and define design intent, logic, physical proposals, and ultimately, the specific components included within construction and bid documents. Discover how proper documentation facilitates every stage of the design process from pre-planning to construction, and leads to a highly resolved built outcome. Understand the principles behind these documentation practices. Implement best practices specific to each documentation phase and drawing, from title block and cover sheet design to soil plans and plant protection. Organize keynoting systems, cross-referencing and interdisciplinary coordination amongst multiple consultants and vendors. Study sample project documents from a leading landscape architecture firm to better understand the elements and benefits of complete and well-coordinated project documentation. These standards have been time-tested by over 150 designers at the industry leading landscape architecture firm Design Workshop, reflecting a range of project types, including parks, streetscapes, urban spaces and over-structure construction. This guide shares the methods behind the success, to facilitate exceptional built outcomes through principled documentation practices. As more factors, perspectives, and metrics are incorporated into the planning and building process, the roles of engineers and designers are increasingly being fused together. Sustainable Infrastructure explores this trend with in-depth look at sustainable engineering practices in an urban design as it involves watershed master-planning, green building, optimizing water reuse, reclaiming urban spaces, green streets initiatives, and sustainable master-planning. This complete guide provides guidance on the role creative thinking and collaborative team-building play in meeting solutions needed to affect a sustainable transformation of the built environment.

Get answers FAST with the Landscape Architect's One-Stop, Take-It-Anywhere Guide In the office or out on the job, the Landscape Architect's Portable Handbook puts the 20% of information you need 80% of the time at your fingertips! You get instant data for every architectural landscaping project: public and private gardens...athletic facilities...highways...urban/suburban settings...MORE! From project administration, planning, design standards and analysis to site development, construction, materials, field techniques, and common rules of thumb, hundreds of handy tables, diagrams and schematics, checklists and field guides give you the accurate how-to's and expertise you need – ANYWHERE, ANYTIME! It packs easily in your briefcase, so you can cut down on time-consuming trips and calls between field and office, or get satisfyingly fast facts and guidelines when you're catching up on work at home.

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It's a distillation of the entire profession... and provides the perfect ASLA registration exam review. You get: * A framework for interpretation, conceptualization, evaluation, and communication at multiple scales, regardless of the type of landscape planning or design project * Standards, techniques and devices * Analysis-to-project administration guidelines and checklists * Step-by-step procedures * Mechanics and design calculations, formulas, worked examples and models * 193 clarifying illustrations -- from USDA plant hardiness zones to basic layouts and schematic diagrams...from approval processes flow charts to a CPM bar chart * 98 quick-check tables let you instantly pinpoint area space standards...tree mortality causes and remedies...recommended live loads for different decking uses and maximum decking spans...irrigation system selection criteria – and much, much more * Scores of easy-to-use, easy-to-remember rules of thumb * General unit cost factors for materials, systems, and construction * More! From the broad overall aspects of a project to the smallest detail, find the specific data you need on... Project Management; Permits; Site Selection and Clearing; Grading; Drainage; Decks; Fences; Lighting; Paving; Plants; Ponds; Pools; Retaining Walls; Billing; More

Designing Sustainable Forest Landscapes is a definitive guide to the design and management of forest landscapes, covering the theory and principles of forest design as well as providing practical guidance on methods and tools. Including a variety of international case studies the book focuses on ecosystem regeneration, the management of natural forests and the management of plantation forests. Using visualisation techniques, design processes and evaluation techniques it looks at promoting landscapes which are designed to optimise the balance between human intervention and natural evolution. A comprehensive, practical and accessible book, Designing Sustainable Forest Landscapes is essential reading for all those involved in forestry and landscape professions.

The Council of Europe landscape convention was adopted in Florence (Italy) on 20 October 2000 with the aim of promoting the protection, management and planning of European landscape and organising European co-operation in this area. It is the first international treaty covering all aspects of European landscape. It applies to the entire territory of the contracting parties and covers natural, rural, urban and peri-urban areas. It concerns landscapes that might be considered outstanding, commonplace or deteriorated. By taking into account landscape, culture and nature, the Council of Europe seeks to protect the quality of life and well-being of Europeans in a sustainable development perspective. Basic principles : "Sustainability" in context -- Principle 1 : Keep healthy sites healthy -- Principle 2 : Heal injured soils and sites -- Principle 3 : Favor living, flexible materials -- Principle 4 : Respect the waters of life -- Principle 5 : Pave less -- Principle 6 : Consider origin and fate of materials -- Principle 7 : Know the costs of energy over time -- Principle 8 : Celebrate light, respect darkness -- Principle 9 : Quietly defend silence -- Principle 10 : Maintain to sustain -- Principle

11 : Demonstrate performance, learn from failure -- Sustaining principles, evolving efforts.

There are unique greening solutions and practices that help create a lifestyle shift, improving the health of living and working spaces for its occupants from a personal, business, environmental, and profitable perspective. Short-term and long-term considerations are important elements when moving forward towards healthy practices in lifestyles, choices, and site designs. This book addresses a myriad of greening practices that can be applied to structures in our urban, suburban, and rural cultures. From the loft to the neighborhood, the office spaces to the public spaces, and the schools to the communities, this book outlines how business owners and residents can integrate scale appropriate green solutions into their lifestyles. *Green Up!: Sustainable Design Solutions for Healthier Work and Living Environments* includes detailed illustrations and photographs to help you understand design opportunities for your space. Stevie Famulari provides unique insights and inspires business owners, residents, and planners to develop their own green understanding and design solutions. Illustrations and photographs of applied greening are included throughout the book to help inspire your own goals and design, and then transform them to reality. The author breaks down the misconceptions of the complexity of sustainability and green practices. Greening is a lifestyle change, and this step-by-step instruction guide lets you know how easy it is to transition to the green side!

This unique book and DVD is an interactive learning environment composed of seven content areas: building form, envelopes, structures, climate control systems, renewable energy, lighting, and landscape design. Each of these content areas is subdivided into learning modules introducing the subject matter and investigates best practices for climate responsive and ecologically sustainable building design and construction. The DVD will help visualize and engage with concepts that may otherwise be too ambiguous or difficult to comprehend in a book format. Key Features: --Interactive format: Takes advantage of the interactive capabilities of state-of-the-art computing technology including hypertext functionality, animations, and open information referencing --Highly visual: Demonstrates building sustainability concepts using well detailed, realistic, 3-D computer generated models and interactive animations --Educational materials serving a variety of learning styles: Combines a traditional textbook format with multimedia graphics and interactive animations, thereby serving both those who learn better through visual media as well as those who prefer reading a textbook --Interdisciplinary nature: Provides a wide range of information for various disciplines engaged in building design and construction including building envelope, mechanical systems, lighting systems, landscape, and energy resources

This practical guide for educational leaders explores how you can transform your school or district into a vibrant center of learning and socio-ecological responsibility with only three manageable actions: taking students outside, bringing nature inside, and

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cultivating a mindset of awareness, responsibility, and empathy. This book is rich in practical, attainable approaches and stories of real actions taken by leaders, teachers, parents, and community partners to design, lead, and manage a vibrant, flourishing, sustainable learning community. Authors Uline and Kensler take you on an inspirational journey through nine key leadership strategies for you to begin or expand your work towards whole school sustainability.

Landscape Construction, 3rd edition, will help your students understand the process of construction and implementation of a multitude of exterior hardscape construction projects. This book begins with the preparation for construction and follows through to the installation of the final elements of the landscape project. Your students will appreciate the detailed discussions about site preparation, grading and drainage, utilities and irrigation, retaining wall construction, paving, exterior carpentry and fencing and free-standing walls. Such amenities as pools, ponds, and edging are also discussed in detail. All instructions are well supported by photos and illustrations. Each section contains thorough installation information for most of the contemporary materials used in today's landscapes. David Sauter has provided your students with expert perspective on materials and techniques, as well as easy-to-follow instructions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

LEED v4 Practices, Certification, 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 LEEDTM Green Associate exam, followed by the LEEDTM 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

The full-color, practical guide to designing sustainable residential landscapes and small-scale sites "Going green" is no longer a choice; it's a necessity. Developed landscapes have played a significant role in exacerbating the environmental and social problems that threaten humanity; however, they can also be part of the solution. Designing the Sustainable Site: Integrated Design Strategies for Small-Scale Sites and Residential Landscapes gives site designers and landscape architects the tools and information they need to become a driving force in the quest for sustainability. Advocating a regenerative design approach in which built landscapes sustain and restore vital ecological functions, this book guides readers through a design process for new and redeveloped sites that not only minimizes damage to the environment but also actively helps to repair it. Designing the Sustainable Site: Assists designers in identifying and incorporating sustainable practices that have the greatest positive impact on both the project and the surrounding community, within a regional context Uses photographs,

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sketches, and case studies to provide a comprehensive look at successful green landscape design. Illustrates how sustainable practices are relevant and applicable to projects of any size or budget. Demonstrates how built environments can protect and restore ecosystem services. Explains the multiple and far-reaching benefits that sustainable design solutions can provide. Assists project teams in fulfilling credit requirements of green building assessment tools, such as LEED, BREEAM, or SITES. With attention to six global environmental challenges—including air pollution, urban flooding and water pollution, water shortages, invasive species, and loss of biodiversity—along with guidance on how to meet these challenges, *Designing the Sustainable Site* is a practical design manual for sustainable alternatives to small-scale site and residential landscape design.

THE COMPLETE GUIDE TO THE SUSTAINABLE MANAGEMENT OF LANDSCAPES

A must-have guide for anyone working with landscapes, *Sustainable Landscape Management* eases the transition of the landscape industry into a new era of green consciousness. Filled with examples that illustrate best practices, the book provides a practical framework for the development of sustainable management strategies from design to execution and, eventually, to maintenance in an effort to construct landscapes that function more efficiently and minimize the impact on the environment. *Sustainable Landscape Management* includes: An overview of sustainable design and construction techniques as the basis for the maintenance and management of constructed landscapes. Coverage of ecosystem development, managing landscape beds, managing trees and shrubs, and lawn care. An entire chapter devoted to issues associated with the use of chemicals in landscape management. Guidance on retrofitting existing landscapes for sustainability. Reshaping the landscape takes on more significance as society embraces a new value system for advancing environmentally friendly ideals. By following the management principles laid out in this book, readers will learn the key elements for building landscapes that integrate beauty and function to create a sustainable presence that extends well into the future.

The only comprehensive guide to wood specifically for landscape architects. Wood, with its unique warmth and richness, takes us back to the roots of our building heritage and back to the landscape. Lightweight, simple, and clean to work with, it is one of the most versatile building materials, and—thanks in part to its natural origin—one that is also especially well-suited to the designed landscape. *Wood in the Landscape* gives you the information you need to exploit wood's full potential in your design work. The first comprehensive guide to the properties, use, selection, and installation of wood written from the landscape architect's perspective, it is destined to become a staple in your practice. *Wood in the Landscape* provides full, detailed coverage of all relevant technical aspects of working with wood—including the physical properties and characteristics of wood as well as finishes, fasteners, and adhesives. It examines the construction methodologies used to build a range of common structures, from fences and decking to gazebos and bridges, and shows how to avoid common problems that can adversely affect durability—particularly important when it comes to outdoor settings. Generously supplemented with over 100 photographs and illustrations, *Wood in the Landscape* is a terrific source of ideas that will inspire you to explore the many exciting possibilities for using wood to enhance your landscape designs. *Wood in the Landscape* is an invaluable resource for landscape architects, landscape designers,

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and architects who provide site-planning services.

The second edition of Sustainable Construction provides a masterclass on the principles and techniques involved in the design and delivery of practical, affordable, high quality sustainable buildings and places. It presents precedents, theory, concepts and principles alongside 120 wide ranging case studies that highlight current best practice and encourage implementation. Topics in the book include: • the history of ideas in sustainable construction • policy • materials • cost issues • appraisal techniques • environmental design • energy • water • construction processes • and urban ecology. The book is heavily illustrated in full colour and is an ideal, contemporary, accessible primer to courses in Architecture, Construction, Building Engineering, Environmental Engineering, Project Management, Landscape, Urbanism and Development.

Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an invaluable reference to all those concerned with architecture and sustainability issues.

Writing for a high-quality scientific aquaculture publication is challenging, and many students and early career aquaculture scientists find the task daunting. Expanding on his popular workshop on Improving Scientific Writing at the 2017 World Aquaculture conference, Rodrigue Yossa provides new researchers with all the tools they need to write abstracts and a variety of articles (original, research reports, magazines, working papers, conference proceedings and more). He also takes the reader step-by-step through the process of reviewing submitted manuscripts and replying to reviewers, as well as understanding research ethics. Each section is accompanied by examples, and attention is focused on providing advice on grammar, how to focus your paper and possible loopholes when writing. A Pocket Guide to Scientific Writing in Aquaculture Research offers a lifeline to aquaculture students and early career researchers getting a grasp on the basics of science communication through writing. For practitioners and students in architecture, landscape architecture, planning, and civil engineering, A Guide to Site Planning and Landscape Construction offers an indispensable and authoritative reference.

Architecture 2030; BUG; Biophilic Design; BIPV; Circular Economy; LEED; Passive Design; Solar Chimney; Systems Thinking; WELL; Xeriscaping. What does it all mean? The complex and evolving language used in the sustainable design community can be very challenging, particularly to those new to

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environmentally friendly and resource-efficient design strategies that are needed today. Definitions of over two hundred terms with further sources. Clearly cross-referenced with Sustainaspeak, Theoryspeak, and Archispeak terms. Illustrated throughout with sustainable award-winning buildings by e.g. Behnisch, Brooks + Scarpa, EHDD, KieranTimberlake, Lake-Flato, Leddy Mahtum Stacy, SmithGroup, Perkins+Will, ZGF, VMDO, and McDonough + Partners.

Sustainaspeak: A Guide to Sustainable Design Terms provides a current guide to the sustainable design strategies, terms, and practices needed for the next generation of designers, architects, students, and community leaders to design a carbon-neutral world for future generations.

Sustainable Gardening puts gardeners on the eco-friendly path by providing all the necessary guidance to create and care for a stable, resource-savvy, and gorgeous landscape.

This book is a compilation of 10 recently published academic articles addressing sustainable residential landscape design and planning across geographies, scales, and perspectives: from American rain garden design to South Korean urban forestry; from Mexican community open space design to Australian neighborhood park planning; and from Chinese urban design to Bolivian land-use change. This volume brings together authors from a growing community of landscape sustainability scholars of landscape architecture and architecture; planning and construction; ecology and horticulture; agricultural and environmental sciences; and health, exercise, and nutrition. In summary, these papers address facets of a fundamental challenge for the 21st century: the design and planning of sustainable and resilient human settlements.

Sustainable Landscape Management-A Guide to Care in the Desert Southwest is a part of the Urban Landscape Sustainability program created by Janet Waibel, landscape architect in Tempe, AZ. Developed for use by the landscape industry to generate more aesthetic and valuable urban landscapes to improve the urban lifestyle. Our outdoor spaces contribute greatly to the quality of life especially in Arizona where much of our time can be enjoyed outdoors. The Arizona publication is used by the Arizona Landscape Contractor's Association to offer the SLM curriculum for certification of landscape professionals. Companies with SLM certified staff are held to a high standard of excellence to properly care for our unique desert plant materials. Since 2010 over 4000 copies of the book have been sold.

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 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

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building, covering the theory, history, and state of the industry as well as best practices in building 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 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 interested in sustainability.

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