

# GREEN ROOFS

Ecological Design and Construction

**Earth Pledge**

Foreword by William McDonough



A Schiffer Design Book



# Green Roofs Ecological Design And Construction

**Karin Nielsen-Saines**



## **Green Roofs Ecological Design And Construction:**

Green Roofs Earth Pledge (Organization),2005 Examine possibilities for city wide green roof development using 335 color photographs 40 in depth building case studies and 7 municipal case studies of Berlin Tokyo London Portland Chicago Toronto and New York This book includes an opening essay by William McDonough an architect and leader of the sustainable development movement and details the ecological benefits technical requirements architectural history and design possibilities of vegetated rooftops

**Green Roof Systems** Susan Weiler,Katrin Scholz-Barth,2011-09-28 Green Roof Systems goes beyond the fashionable green roof movement and provides solid information on building accessible space often as important public space over structure It offers brief coverage of the entire process including planning and collaboration and focuses on the technical aspects of these roof systems their components and their applications

*Green Roofs in Sustainable Landscape Design* Steven L Cantor,2008-10-14 Green Roofs defines the types of green roofs both extensive and intensive introduces the vocabulary of green roofs details the components available describes the design and development process lists recommended plant materials and explains methods of installation irrigation and maintenance Approximately 70 vivid and detailed case histories of major projects in Europe where green roofs began and contemporary examples throughout North America copiously and beautifully illustrated with almost 400 images make this book an invaluable guide to the state of the art

**BOOK JACKET The Green Roof Manual** Linda McIntyre,Edmund C. Snodgrass,2010-08-11 Green roofs the ultimate in sustainable building practices continue to generate enormous interest and enthusiasm among architects landscape designers and urban planners Increasingly strict stormwater regulations and the appeal of LEED related projects have also boosted the popularity and desirability of green roofs Those who want to build green roofs however have few resources to guide them Until now no book has taken a comprehensive look at how to effectively adapt green roof technology to the variable and extreme North American climate and how to design projects that will function and endure as successfully as those in Germany Switzerland and other European countries This book fills the gap by providing an overview of practices and techniques that have been effective in North America The authors offer options regarding structure function horticulture and logistics as well as surveys of actual projects and analyses of why they have or haven't succeeded Approachable and reader friendly the manual clearly explains how these complex systems function and how to plan and carry out projects successfully from concept through construction and maintenance Ideally suited to professionals including architects landscape architects engineers and designers and their clients it brings together key lessons from leaders in the field Numerous photographs highlight the range of design possibilities and show green roofs both during construction and at various stages of maturity At last those seeking basic information about how to design and build green roofs have a concise authoritative guide to this exciting new technology

**Green Roof - A Case Study** Christian Werthmann,2007-08-30 Green roofs are the great green hope of many environmentalists politicians and architects interested in more efficient and

environmentally aware buildings From a design standpoint however there is less consensus While some see the roof garden as a visual statement using plants geometric lines and sculptural elements others believe concerns for sustainability should outweigh visual appeal A green roof that combines aesthetics and mechanics has become the goal of many a landscape architect In *Green Roof Gardens* author Christian Werthmann explains the history methodology and design process of green roof garden construction providing a rich source of inspiration and technical knowledge in the process for anybody interested in this simple solution to many of the environmental challenges we face today *The Professional Design Guide to Green Roofs* Lisa Lee Benjamin, Karla Dakin, Mindy Pantiel, 2013-02-04 Until recently most green rooftop gardens were little more than variations on sedum mats on four inches of soil Now designers are creating cutting edge green roofs that focus not only on critical environmental issue like heat storm management and ecosystem development but also on the aesthetics offering beautiful livable sustainable landscapes The Professional Design Guide to Green Roofs is a comprehensive exploration of rooftop garden design and the process behind it It covers everything landscape architects and garden designers need to know to create a beautiful garden in the sky With lush photography international examples and solid how to information this is an essential resource for all design professionals

**Green Roof Construction and Maintenance (GreenSource Books)** Kelly Luckett, 2009-08-03 A Complete Guide to Building and Maintaining Green Roofs Written by an industry expert in green roof design and installation this GreenSource book presents all of the information you need to skillfully design construct and maintain green roofs You will find a wealth of practical details gathered through real world implementations and independent research Green Roof Construction and Maintenance explains how to design a green roof plan for irrigation and drainage select and place soil and plants and maintain the entire setup The book also discusses return on investment LEED design specifications and the myriad short and long term environmental benefits of green roofs Filled with step by step illustrations and full color photographs this is a valuable hands on guide to a rapidly emerging trend in the sustainability movement Green Roof Construction and Maintenance includes Key questions to ask at each stage of the green building process Tested tips and techniques for successful structural design Construction methods for new and existing buildings Information on insulation drainage detailing irrigation and plant selection Details on optimal soil formulation Illustrations featuring various stages of construction Best practices for green roof maintenance A survey of environmental benefits including evapo transpiration storm water management habitat restoration and improvement of air quality Tips on the LEED design and certification process Considerations for assessing return on investment Color photographs of successfully installed green roofs Useful checklists tables and charts

**Essential Green Roof Construction** Leslie Doyle, 2021-11-09 Simple green roof design and installation for the do it yourself builder Essential Green Roof Construction is a comprehensive in depth guide to building simple green roofs for houses and small buildings Packed with detailed photos illustrations case studies and code compliance advice it offers clear step by step instructions necessary to create your own living roof on a new

build or as a retrofit Coverage includes The benefits of a green roof The basics of planning and design Assessing site conditions such as aspect slope and loads Navigating building codes and working with building officials Material options including professional grade and economical or local alternatives Planting suggestions for different roof climates and conditions including food production When to call on professionals to ensure safety and integrity Step by step guidance for safe roof installation and detailing Annual green roof maintenance Where common sense meets beauty a green roof is a system of layers that work together to support plant life insulate homes and make the world a greener place Essential Green Roof Construction will give you the knowledge and confidence to install your own green roof      Ecoregional Green Roofs Bruce Dvorak,2021-02-05 This book studies the application of green roofs in ecoregions of the western United States and Canada While green roofs were intended to sustain local or regional vegetation this volume describes how green roofs in their modern form are typically planted with a low diversity mix of sedums from Europe or Asia The authors demonstrate how in the western USA and Canada many green roofs have been designed with native plants and have been found to thrive Part I of this book covers theory and an overview of ecoregions and their implications for green roofs In Part II vegetation from prairies deserts montane meadows coastal meadows and scrub and sub alpine habitats are explored on seventy three ecoregional green roofs Case studies explore design concepts materials watering and maintenance wildlife plant species and lessons learned Part III covers an overview of ecoregional green roofs and a future outlook This book is aimed at professionals designers researchers students and educators with an interest in green roofs and the preservation of biodiversity      Small Green Roofs Nigel Dunnett,Dusty Gedge,John Little,Edmund C. Snodgrass,2011-01-01 Demonstrates how to design construct garden and maintain a green roof and offers examples of the structure being used on rooftops in the United States United Kingdom and New Zealand      **Green Roof Ecosystems** Richard K. Sutton,2015-06-04 This book provides an up to date coverage of green vegetated roof research design and management from an ecosystem perspective It reviews explains and poses questions about monitoring substrate living components and the abiotic biotic and cultural aspects connecting green roofs to the fields of community landscape and urban ecology The work contains examples of green roof venues that demonstrate the focus level of detail and techniques needed to understand the structure function and impact of these novel ecosystems Representing a seminal compilation of research and technical knowledge about green roof ecology and how functional attributes can be enhanced it delves to explore the next wave of evolution in green technology and defines potential paths for technological advancement and research      **Sustainable Surface Water Management** Susanne M. Charlesworth,Colin A. Booth,2016-09-13 Sustainable Surface Water Management a handbook for SUDS addresses issues as diverse as flooding water quality amenity and biodiversity but also mitigation of and adaptation to global climate change human health benefits and reduction in energy use Chapters are included to cover issues from around the world but they also address particular designs associated with the implementation of SUDS in tropical areas problems with

retrofitting SUDS devices SUDS modelling water harvesting in drought stricken countries using SUDS and the inclusion of SUDS in the climate change strategies of such cities as Tokyo New York and Strasbourg Ecology, Planning, and Management of Urban Forests Margaret M. Carreiro, Yong-Chang Song, Jianguo Wu, 2007-10-31 It has been increasingly recognized that trees and vegetation in urban areas provide a number of ecological services beyond beautifying cities The purpose of urban forestry is to use trees and natural habitat patches to ameliorate negative environmental impacts of cities and to contribute to the creation of more livable ecological sustainable cities Ecology Planning and Management of Urban Forests takes an international approach to sharing knowledge about the management of urban forests that has been learned through studies in many different regions This allows the reader to evaluate methods and management that are appropriate for particular geographic environmental and socio political contexts Urban forests are also approached on regional and landscape scales to encompass more natural environments in and around cities rather than within arbitrary municipal boundaries

**Regreening the Built Environment** Michael A. Richards, 2024-09-18 Now in its second volume Regreening the Built Environment provides an overview of physical and social environmental challenges that the planet is facing and presents solutions that restore ecological processes reclaim open space foster social equity and facilitate a green economy Healing the planet requires a combination of strategies networked across multiple scales of development including buildings sites communities and regions Case studies from a range of locations in the United States Denmark Vietnam Germany South Korea Switzerland France and the United Kingdom among others demonstrate how existing gray infrastructure can be retrofitted with green infrastructure and low impact development techniques From this the author shows how a building can be designed that creates greenspace or generates energy likewise a roadway can be a parkway an alley can be a wildlife corridor and a parking surface can be a garden This new edition also includes case studies that have successfully reconnected communities that were fragmented by unjust planning practices and irresponsible patterns of development resilient design solutions in response to natural disasters passive design strategies that can make interior spaces more efficient and healthier and expanded discussions on capturing carbon renewable energy agriculture waste public transit and adaptive reuse including innovative ideas on how to reimagine the shopping mall in the era of e commerce The strategies presented in this book will stimulate discussions within the design profession and will be of great interest to students and practitioners of environmental studies architecture landscape architecture and urban design

*The Green Studio Handbook* Alison G Kwok, Walter Grondzik, 2018-01-19 The Green Studio Handbook remains an essential resource for design studios and professional practice This extensive and user friendly tool presents practical guidelines for the application of green strategies during the schematic design of buildings Students and professionals can quickly get up to speed on system viability and sizing Each of forty three environmental strategies includes a brief description of principles and concepts step by step guidance for integrating the strategy during the early stages of design annotated tables and charts to assist with preliminary

sizing key issues to consider when implementing the strategy and pointers to further resources Ten new in depth case studies illustrate diverse and successful green buildings integrated design projects and how the whole process comes together This third edition features updated tables and charts that will help to save energy water and material resources during the early stages of design More than 500 sketches and full color images illustrate how to successfully apply strategies A glossary a project index listing 105 buildings in 20 countries updated tables and drawings and I P and SI units increase the usefulness of The Green Studio Handbook

**Materials for Architects and Builders** Arthur R. Lyons, 2007 Materials for Architects and Builders provides an introduction to a wide range of building materials It explains in detail the manufacture key physical properties specification and uses of the standard building products everything a student would need to know The book also describes many recent technological innovations and rediscovered materials reflecting an increased concern for environmental issues within the Industry This new edition has been completely updated to reflect the amended Building Regulations the latest British and European Standards as well as incorporating current advice and information from the Building Research Establishment Dr Arthur Lyons is a teacher fellow and principal lecturer in building materials at the Leicester School of Architecture within the Faculty of Art and Design at De Montfort University UK He has taught the subject of building materials for thirty five years to a wide range of students within the built environment disciplines The text covers the widest range of materials from standard products to ecofriendly materials and components Up to date with respect to the latest Building Regulations and European British Standards Well illustrated with many colour images showing typical use of the materials in high quality construction

Regenerative agroubanism R. France, 2023-08-14 The core activities of urban agriculture are involved with producing processing marketing distributing and consuming food Urban agriculture also provides services and outcomes through transforming neglected or damaged landscapes lives and livelihoods This book focuses on the so called ancillary benefits of urban agriculture in terms of healing economies connections aesthetics heritage and sites and societies in short what might be referred to in an holistic sense as the emerging paradigm of agroubanism More than seventy case studies from around the world are reviewed through the social ecological lens of regenerative landscape design Many of these cases have never before been discussed in the literature Topics examined include entrepreneurship gastro tourism food literacy foodscaping heritage and social and societal wellbeing The methodological approach undertaken is layered narrative scholarship based on the phenomenology of experiencing landscapes and is facilitated through a linked website containing photo essays documenting the site visits Robert L France is a world renowned scientist in the Faculty of Agriculture at Dalhousie University where he teaches courses on urban agriculture ecohydrology watershed management conservation biology and environmental restoration For more than a decade he taught and conducted research on landscape architecture land use planning and urban design at the Harvard Design School Dr France is the author or editor of twenty two books and more than two hundred journal articles on a wide range of environmental

subjects which together have been cited more than ten thousand times in the professional literature In 2010 he organized the first international academic conference on urban agriculture in Canada which led to the publication of the edited volume Integrated Urban Agriculture Precedents Practices Prospects His previous book with Wageningen Academic Publishers is about the pre plastic environmental history of fishery bycatch Disentangled Ethnozoology and Environmental Explanation of the Gloucester Sea Serpent **The Handbook of Contemporary Indigenous Architecture** Elizabeth Grant,Kelly

Greenop,Albert L. Refiti,Daniel J. Glenn,2018-06-26 This Handbook provides the first comprehensive international overview of significant contemporary Indigenous architecture practice and discourse showcasing established and emerging Indigenous authors and practitioners from Australia Aotearoa New Zealand the Pacific Islands Canada USA and other countries It captures the breadth and depth of contemporary work in the field establishes the historical and present context of the work and highlights important future directions for research and practice The topics covered include Indigenous placemaking identity cultural regeneration and Indigenous knowledges The book brings together eminent and emerging scholars and practitioners to discuss and compare major projects and design approaches to reflect on the main issues and debates while enhancing theoretical understandings of contemporary Indigenous architecture The book is an indispensable resource for scholars students policy makers and other professionals seeking to understand the ways in which Indigenous people have a built tradition or aspire to translate their cultures into the built environment It is also an essential reference for academics and practitioners working in the field of the built environment who need up to date knowledge of current practices and discourse on Indigenous peoples and their architecture Sustainable Stormwater Management Thomas W.

Liptan,2017-07-26 An essential addition to the landscape design library Nature devises ingenious systems for the management and delivery of water in all its phases No additional infrastructure is required the water systems are in place naturally But once the natural environment has been disrupted by human development stormwater becomes an issue that requires intervention and ongoing management Sustainable Stormwater Management by leading expert Tom Liptan provides landscape students and professionals with a green approach to landscape design The hardworking book includes comprehensive information on how to design install and maintain a landscape for sustainable stormwater management It addresses stormwater in the urban environment relevant environmental and economic policies and shares case studies of exemplary projects from around the world **Urban Farming** Thomas Fox,2011-06-07 It doesn t take a farm to have the heart of a farmer Now due to a burgeoning sustainable living movement you don t have to own acreage to fulfill your dream of raising your own food Hobby Farms Urban Farming from Hobby Farm Press and the same people who bring you Hobby Farms and Hobby Farm Home magazine will walk every city and suburban dweller down the path of self sustainability Urban Farming will introduce readers to the concepts of gardening and farming from a high rise apartment participating in a community garden vertical farming and converting terraces and other small city spaces into fruitful vegetableful real estate



This comprehensive volume will answer every up and coming urban farmer s questions about how what where and why a new green book for the dedicated citizen seeking to reduce his carbon footprint and grocery bill

## Adopting the Song of Phrase: An Mental Symphony within **Green Roofs Ecological Design And Construction**

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