

Xs Small Structures Green Architecture

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more than a century after its inception the skyscraper has finally come of age though it has long been lampooned as a venal and inhospitable guzzler of resources a revolutionary new school of skyscraper design has refashioned the idiom with buildings that are sensitive to their environments benevolent to their occupants and economically viable to build and maintain designed by some of the best known architects in the world these towers are as daring aesthetically as they are innovative environmentally big and

green is the first book to examine the sustainable skyscraper its history the technologies that make it possible and its role in the future of urban development the book examines more than 40 of the most important recent sustainable skyscrapers including fox fowle s reuters buildings in new york norman foster s commerzbank in frankfurt and mvrdiv s spectacular dutch pavilion from expo 2000 in hanover with project descriptions photographs and detailed drawings interviews with such leaders in the field as sir richard rogers william mcdonough and kenneth yeang are also included

sustainable design is booming but the men and women dedicated to reducing their carbon impact have lost sight of what they are trying to save the natural world author neil chambers has been at the forefront of cutting edge sustainable architecture for years and urban green is his revolutionary vision for bringing the power of the conservation and design movements together he advocates looking to nature for the missing components of the green revolution oysters that can clean water at up to 5 liters an hour beavers that reshape their environments while simultaneously enriching ecosystems and mountains that offer a new way of imagining how a city could be built by designing our homes and cities in harmony with the natural world we can take the next step in the sustainable revolution

provides designs for a variety of buildings that conserve space and help preserve the environment

a stunning illustrated overview of green architecture on every continent packed full of cool steam facts and fascinating details from a waste collection site built entirely from recycled materials to a school designed to float during flood season in bangladesh this dazzling book highlights innovative and sustainably built structures around the world did you know that woodscrapers or skyscrapers made of wood can reduce construction waste how about that termite mounds have served as inspiration for temperature control systems and believe it or not there s a research station built on skis in antarctica pairing a kid friendly conversational approach with spectacularly detailed art kate mcmillan dissects the design of 15 eco friendly buildings worldwide the extraordinary structures fall into five categories each emphasizing a key element of sustainable design 1 local materials 2 adaptability 3 sustainable construction 4 clean energy and 5 optimized space readers of all ages will love poring over the precise colorful illustrations and informative close ups featured on eye catching double page spreads perfect for budding architects and engineers this book is a work of art books for a better earth are designed

to inspire children to become active knowledgeable participants in caring for the planet they live on a junior library guild gold standard selection an nsta best stem book

this portfolio of leading edge ecostructures by prestigious firms the world over proffers blueprints for the future of architecture the book presents innovations that show how advanced technology answers the challenge to use less and recycle more how using local materials reduces costs how incorporating elements of nature conserves our ecology how buildings can take on the shapes of their natural surroundings to harmonize with the land and how existing structures can be modernized by eco friendly engineering and sustainable materials

contemporary architecture and the culture it reflects dependent as it is on fossil fuels has contributed to the cause and necessity of a burgeoning green process that emerged over the past half century this text is the first to offer a comprehensive critical history and analysis of the greening of architecture through accumulative reduction of negative environmental effects caused by buildings urban designs and settlements describing the progressive development of green architecture from 1960 to 2010 it illustrates how it is ever evolving and ameliorated through alterations in form technology materials and use and it examines different places worldwide that represent a diversity of cultural and climatic contexts the book is divided into seven chapters with an overview of the environmental issues and the nature of green architecture in response to them followed by an historic perspective of the pioneering evolution of green technology and architectural integration over the past five decades and finally providing the intransigent and culturally pervasive current examples within a wide range of geographic territories the greening of architecture is seen as an evolutionary process that is informed by significant world events climate change environmental theories movements in architecture technological innovations and seminal works in architecture and planning throughout each decade over the past fifty years this time period is bounded on one end by the awareness of environmental problems beginning in the 1960 s the influential texts by rachel carson e f schumacher buckminster fuller and steward brand and the impact of the opec oil embargo of 1973 and on the other end the pervasiveness of the necessary greening of architecture that includes systemic reforms in architectural and urban design land use planning transportation agriculture and energy production found in the 2000 s the greening process moves from remediation to holistic models of architecture geographical landscapes give a global account of the greening process

where some examples are parallel and sympathetic and others are in clear contrast to one another with very individuated approaches certain events like the rio summit in 1992 and kyoto protocol in 1997 and themes such as the hannover principles in 2000 provide a dynamic ideological critique as well as a formal and technical discussion of the embodied and accumulative content of greening principles in architecture

although many designers have succeeded in applying ecological or green design principles to architecture on the small scale city centers remain an uncharted frontier when it comes to achieving integrated ecologically responsive buildings architect ken yeang takes us an important step forward by addressing the challenge of making the skyscraper an intensive large building type sustainable that is a structure that has a beneficial impact on the natural environment and increases energy efficiency in the core yeang's premise is that the skyscraper is a built form that will stay with society well into the future and that its worldwide popularity is a reason in itself to rethink its relationship to the environment the green skyscraper presents a general framework for looking at ecological design a step by step guide to examining the fundamental premises of such an approach as well as its practical applications to the contemporary skyscraper issues discussed include the use of energy and materials and their physical impact on the ecosystem illustrated with case studies from yeang's own projects experiments and research

the council on tall buildings and urban habitat has produced four technical guides to date since the series launched in late 2012 each of these guides is the product of a ctbuh working group committees formed specifically to address focused topical subjects in the industry the intention of each guide is the same to provide working knowledge to the typical building owner or professional who wants a better understanding of available options for improving tall buildings and what affects their design the object of the series is to provide a tool kit for the creation of better performing tall buildings and to spread the understanding of the considerations that need to be made in designing tall this technical guide offers an extensive overview of the use of vertical vegetation in high rise buildings an indepth analysis of green walls definitions and typology including standards policies and incentives it features comprehensive case studies along with architectural theories of the public and private benefits of green walls the book delves into architect design considerations and limitations the effects of green walls on energy efficiencies and includes recommendations and future research

for sustainable architecture to become a reality the way we design buildings needs to change many architects are concerned that sustainable technologies may interfere with a building's aesthetic appearance and so these are often added on once the design process is complete elements of sustainable architecture solves this dilemma by helping students to develop the design skills they need to create sustainable buildings ensuring that ecological considerations are applied throughout the design process restoring the primacy of aesthetics and creativity to sustainable design the book focuses on strategies that have the greatest impact on building design it also shows the influence of sustainability considerations on choices about aspects such as composition form space tectonics materials colour textures proportion and position specifically designed to offer a new way of understanding architecture the book introduces students to the basic principles and methods of sustainable design features current examples and inspiring case studies to support learning step by step presents information in a visually appealing intuitive easy to understand way includes over 500 high quality colour diagrams drawings sketches and photographs a clear visual introduction to creating aesthetically beautiful and sustainable buildings this is essential reading for students in sustainable architecture courses

selected peer reviewed papers from the 2012 international conference of health structure material and environment hsme 2012 december 4 5 2012 shenzhen china

as buildings are responsible for fifty per cent of co2 emissions their design has become the focus of intense technical scrutiny knowing how to build more technically efficient or ecologically responsible buildings and being able to assemble the social resources to do so requires different forms of knowledge and practice there is wide contestation over the optimal pathways to greener buildings design and great diversity in practices of sustainable architecture this volume brings together leading researchers from across the european union and north america both to illustrate the diversity of practice and to provide a critical commentary on this key debate the reader is provided with an introduction to competing perspectives on the sustainable architecture debate international exemplars of differing practice and an overview of new theoretical and methodological resources for understanding and meeting the conceptual social and technical challenges of sustainable architecture

in his moving to sustainable buildings paths to adopt green innovations in developed countries umberto berardi explores the transition of the construction sector to

sustainable building through the adoption of green innovations applying methods ranging from theoretical discussions to interviews and field studies berardi describes how organisational models among stakeholders are changing as the sector moves towards a green economy berardi's book should prove valuable to engineers architects environment researchers and policy makers alike as it successfully weaves together different aspects of green building to create a multidimensional matrix through which sustainable architecture can be understood umberto berardi an assistant professor at the worcester polytechnic institute ma usa teaches courses on sustainable construction architectural engineering systems and building physics he was awarded an msc from the politecnico di bari an msc from the university of southampton uk and a phd from the scuola interpolitecnica in italy his research areas are related to building acoustics sustainable constructions and energy saving technologies for buildings berardi is also a passionate pianist and a strong proponent of interdisciplinary cooperation between the arts and engineering

design inspiration for structures that are beautiful as well as sustainable this unique and lavishly illustrated guide offers invaluable inspiration for the planning of sustainable structures and facilities twenty four in depth case studies provide information for a wide variety of projects from schools offices and labs to libraries and a summer camp each case study includes a description of the building how it works and how successful it has been

an important consideration for energy efficient buildings is their primary energy requirements over the entire life cycle how to determine this what integrative factors influence the performance of a healthy and sustainable building this while it may be important for clients and architects to know is frequently not very transparent this book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings it is meant as a handbook and source of reference for clients architects planners and building operators to provide them with pertinent information about their design construction and operation how to do this in the most energy efficient and economical manner also there is feedback and documentation about prominent buildings like the hamburg dockland or the landesbank baden wuerttemberg in stuttgart they provide excellent architectural examples for detailed construction and design solutions further there are insightful interviews with architects and clients about many important buildings which help turn this book into an integrated

source of reference for sustainable architecture a guideline for planning construction and operation of sustainable buildings a source of reference for clients architects planners and building operators innovative architectural examples with sustainable concepts and design

energy performance feedback is an essential tool in addressing the current climate crisis however this is not simply another theoretical text about energy performance in buildings this book is for anyone who wants to better understand how energy is used in buildings and how to drive down operational energy use whether you re an architect student client building services engineer contractor building operator or other stakeholder focusing on evidence from feedback on buildings in use it explains what it takes to get them to perform as expected as well as the reasons why they often fail energy people buildings draws extensively on the findings of studies uk government funded building performance evaluations and on original research into seven case studies from across the uk and abroad that have achieved exemplary energy use through building performance feedback providing a clear roadmap to understanding aspects that impact building users comfort and satisfaction it also outlines the factors behind energy use and how to track it across the life of a project to ensure that your building performs as intended case studies include the everyman theatre liverpool rocky mountain institute innovation center colorado and carrowbreck meadow norwich featured architects ahmm ahr architype hamson barron smith haworth tompkins henning larsen architects and zgf architects

the concept of sustainable architecture has a high profile at present as we are become increasingly aware of our responsibilities towards the preservation of our planet nikken sekkei is an architectural firm known for its consideration of the environmental consequences of its buildings and this will be the first book to give a comprehensive coverage of this aspect of their work to date

sustainable architecture modern architecture basics to design healthy green and more equipped communities have you ever wished you knew more about sustainable architecture but had no idea where to start from in this comprehensive book we explore the multifaceted realm of sustainability in the built environment uncovering innovative solutions and cutting edge practices that pave the way towards a greener healthier and more resilient future here is a preview of what you ll learn green building materials a guide to sustainable choices biophilic design incorporating nature into architecture net

zero energy buildings achieving energy independence the role of renewable energy in sustainable architecture water conservation techniques in building design sustainable urban planning creating eco friendly cities high performance building envelopes for energy efficiency integrating smart technologies for sustainable buildings adaptive reuse transforming existing structures into sustainable spaces green roofs and living walls enhancing buildings with vegetation daylighting and artificial lighting balancing energy efficiency and human comfort biomimicry in architecture learning from nature s designs waste management strategies in sustainable construction and much much more take action now follow the proven strategies within these pages and don t miss out on this chance to elevate your mindset to new heights scroll up and grab your copy today

this third edition of green buildings pay presents new evidence and new arguments concerning the institutional and business case that can be made for green design the green argument has moved a long way forward since the previous edition and this fully updated book addresses the key issues faced by architect engineer and client today green buildings pay design productivity and ecology examines through a range of detailed case studies how different approaches to green design can produce more sustainable patterns of development these cases are examined from three main perspectives that of the architect the client and the user completely revised with all new chapters cases sections and introductory material the third edition presents over 20 new researched case studies drawn from the uk europe and the usa written in collaboration with the architects engineers clients and user groups examples of office and educational buildings of high sustainable and high architectural quality an exploration of the architectural innovations that have been driven by environmental thinking such as the new approaches to the design of building facades roofs and atria cases which demonstrate current practice in the area of energy eco retrofits of existing buildings documentation of the benefit impact assessment schemes such as leed and breeam have had upon client expectations and on design approaches over the past decade beautiful full color illustrations throughout in the fast evolving arena of green building the book shows how architects are reshaping their practices to deal with ever more demanding energy standards and better informed users and corporate clients

resource added for the architectural technology program 106141

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