A Prehistory Of Green Architecture Otto Koenigsberger Tropical

The Greening of ArchitectureMoving to Sustainable Buildings:Green ArchitectureTowards a Green ArchitectureGreen Buildings PayHandbook of Green Building Design and ConstructionGreen Building in Developing CountriesGreen ArchitectureGreen Building IllustratedGreen Building A to ZSustainable ConstructionGreen BuildingAnatomy of Green BuildingsGreen ArchitectureThe Green Building RevolutionGreen ArchitectureA Green VitruviusGreen BIMGreen Architecture (GreenSource Books)Emerald Architecture: Case Studies in Green Building (GreenSource) Phillip James Tabb Umberto Berardi Brian Edwards Brenda Vale Brian Edwards Sam Kubba Zhonghua Gou Chen Liu Francis D. K. Ching Jerry Yudelson Charles J. Kibert Michael Bauer Michael J. Crosbie Jerry Yudelson James Wines European Commission Eddy Krygiel Osman Attmann GreenSource Magazine

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

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

sustainability is a key issue as governments worldwide come under pressure to deliver a healthier environment they are starting to legislate for architects to produce greener design this title will provide a vital overview for those looking for an introduction to green architecture on an international level as well as including projects the title will provide an essential outline of the green movement and the influence of key practitioners and thinkers upon architectural practice worldwide

this volume contains six case studies of buildings which were deliberately designed to minimize environmental impact the key issue of energy conservation is examined in each case and other aspects of building such as materials energy content and potential harm to customers are considered

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

creating contract plans and specifications to ensure building performance

the book reveals how green buildings are currently being adapted and applied in developing countries it includes the major developing countries such as china indonesia malaysia thailand pakistan cambodia ghana nigeria and countries from the middle east and gathers the insights of respected green building researchers from these areas to map out the developing world s green building revolution the book highlights these countries contribution to tackling climate change emphasising the green building benefits and the research behind them the contributing authors explore how the green building revolution has spread to developing countries and how national governments have initiated their own green building policies and agendas they also explore how the market has echoed the green building policy and how a business case for green buildings has been established in turn they show how an international set of green building standards in the form of various techniques and tools has been incorporated into local building and construction practices in closing they demonstrate how the developing world is emerging as a key player for addressing the energy and environmental problems currently facing the world the book helps developers designers and policy makers in governments and green building stakeholders to make better decisions on the basis of global and local conditions it is also of interest to engineers designers facility managers and researchers as it provides a holistic picture of how the industry is responding to the worldwide call for greener and more sustainable buildings

recognition of the significant contribution of green building has led to great changes across the construction industry architects designers building professionals can measure the impact on the performance of buildings that it brings in the transformation towards greater sustainability this

book contributes by stressing the importance of energy efficiency in the commercial and residential building stock it also illustrates the great financial and environmental benefits of green architecture

fully illustrated updated guide to the strategic design of green buildings in the tradition of building construction illustrated francis d k ching and ian m shapiro offer a fully illustrated guide to the theory and practice of sustainable design this guide provides architects designers and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings with a focus on sustainable sites approaching and reaching net zero energy low and zero water usage minimum impact materials and superior indoor environmental quality this guide explains why we need to build green as well as green building theory and advancements in the industry this second edition includes all new case studies featuring geographically diverse buildings with proven zero energy performance expanded coverage of zero energy building design as well as zero water and zero waste buildings practical guidance for the schematic design of high performance buildings heating and hot water system selection building envelope details and integrating renewable energy advanced strategies such as the concept of shape efficiency and the optimal location for stairwells in buildings additional strategies for affordability in green design and construction updated references to the latest codes and standards this second edition of green building illustrated is an excellent resource for professionals students and those interested in the design and construction of sustainable buildings

green building is the fastest growing trend to hit since the internet bringing with it an enormous range of new products systems and technologies green building a to z is an informative technically accurate and highly visual guide to green building for both decision makers and interested citizens it begins with an introduction to the importance of green buildings and a brief history of the green building movement outlines the benefits and costs of green buildings and shows how you can influence the spread of green buildings the book touches on key issues such as enhancing water conservation reducing energy use and creating a conservation economy green building a to z examines all aspects of green buildings from architecture 2030 to locally sourced materials to natural ventilation to solar energy to zero net energy buildings more than just a reference this book emphasizes the importance of green buildings and green developments for a sustainable future it will be an invaluable resource for businesspeople homeowners product manufacturers developers building industry professionals and government officials

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 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 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 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

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

the green building revolution is happening right now this book is its chronicle and its manifesto written by industry insider jerry yudelson the green building revolution introduces readers to the basics of green building and to the projects and people that are advancing this movement with interviews and case studies it does more than simply report on the revolution it shows readers why and how to start thinking about designing building and operating high performance environmentally aware leed certified buildings on conventional budgets evolving quietly for more than a decade the green building movement has found its voice its principles of human centered environmentally sensitive development have reached a critical mass of architects engineers builders developers professionals in government and consumers green buildings are showing us how we can have healthier indoor environments that use far less energy and water than conventional buildings do the

federal government eighteen states and nearly fifty u s cities already require new public buildings to meet green standards according to yudelson this is just the beginning the green building revolution describes the many revolutions that are taking place today in commercial buildings schools universities public buildings health care institutions housing property management and neighborhood design in a clear highly readable style yudelson outlines the broader journey to sustainability influenced by the green building revolution and provides a solid business case for accelerating this trend illustrated with more than 50 photos tables and charts and filled with timely information the green building revolution is the definitive description of a major movement that s poised to transform our world

when is a house ecological does the use of natural materials and solar cells on the roof make a building an example of green architecture perhaps even antoni gaud and frank lloyd wright designed greener buildings than most contemporary architects whose low energy houses scarcely differ outwardly from traditional ones james wines puts up the various and often irreconcilable concepts of environmentally friendly architecture for discussion making a case for an architecture that not only focuses on technological solutions but also tries to reconcile man and nature in its formal idiom among the examples of contemporary ecological architecture presented are works by emilio ambasz gustav peichl arthur quarmby jean nouvel sim van der ryn jourda and perraudin log id james cutler stanley saitowitz fran ois roche nigel coates and michael sorkin

green or sustainable or environmentally friendly architecture is not simply an environmental benefit it is place sensitive in a globalising world it leads to location specific architecture by responding to local climatic conditions and using local materials it also offers better architectural quality with more natural and fewer artificial inputs not only is less more less is also beautiful the book is in independent parts four sections structure advice in accordance with the design and construction process the issues to be considered the strategies to be adopted and the elements of green design a fifth section advises on design evaluation publisher s description

meet the challenge of integrating building information modeling and sustainability with this in depth guide which pairs these two revolutionary movements to create environmentally friendly design through a streamlined process written by an award winning team that has gone beyond theory to lead the implementation of green bim projects this comprehensive reference features practical strategies techniques and real world expertise so that you can create sustainable bim projects no matter what their scale

chapter 1 green architecture an overview chapter 2 definitions and operationalizations of green architecture chapter 3 brief history of green architecture chapter 4 green technologies energy generation chapter 5 green technologies energy retention chapter 6 green materials chapter 7 smart materials chapter 8 case studies bibliographyindexosman attmannis an architect and associate professorat the college of architecture and planning university of colorado

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

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