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Skyscraper Bioclimatically Considered

**Krishanu Maiti, Soumyadeep
Chakraborty**



Skyscraper Bioclimatically Considered:

The Skyscraper Bioclimatically Considered Ken Yeang, 1996 An innovative study of this building type The Skyscraper Bioclimatically Considered Ken Yeang, 1996 An innovative study of this building type *Reinventing the Skyscraper* Ken Yeang, 2002-12-03 Underlying Yeang's projects is a programme of research that focuses on the design of the skyscraper a design that derives from the recognized importance that climate has on finding energy efficient resources

Public Places in Asia Pacific Cities Pu Miao, 2013-03-14 PUMIAO 1 The Subject Matter Urban Public Places 2 The Location Asia Pacific Region 3 The Purpose of the Book For the Makers of Public Places 4 The Three Perspectives of the Book Description Criticism and Intervention 5 Perspective One Characteristics of Asia Pacific Cities and Their Public Places 1 High Population Density 2 Large Cities 3 Mixed Uses 4 Government Centered and Pro Development Culture 5 The East versus West Bipolarity 6 Small Amount of Public Space 7 Absence of Large Nodes and Overall Structure in Public Space 8 Intensive Use of Public Space 9 Ambiguous Boundary between the Public and the Private Summaries of Chapters 1 5 6 Perspective Two Current Issues and Debates 1 Identity Formal Identity Functional Identity 2 Sustainability High Tech versus Low Tech High Density versus Low Density 3 Equality Equal Participation Equal Accessibility Summaries of Chapters 6 9 7 Perspective Three Major Trends in Design and Theory 1 The Grey Relationship between the Public and the Private 2 The Transformation of Traditional Typology 3 Indigenous Decoration Color and Material in New Applications 4 The Tropical Public Place Summaries of Chapters 10 17 8 Conclusion Pu Miao ed *Public Places in Asia Pacific Cities* 1 45 2001 Kluwer Academic Publishers 2 P MIAO 1 The Subject Matter Urban Public Places A visitor to Kuala Lumpur will hardly forget the experience of strolling among the fragrant fruits sold under the overhang of the five foot walkway during a tropical downfall Dense + Green Thomas Schröpfer, 2015-12-14 The integration of nature in architecture is a key concern of sustainability However all too often sustainable design is reduced to improving the energetic performance of buildings and the ornamental application of natural green *Dense Green* explores new architectural typologies that emerge from the integration of green components such as sky terraces vertical parks and green facades in high density buildings The book describes green strategies in a comparison across different design tasks and climate conditions In depth case studies on the most relevant building types consistently presented with analytical drawings made exclusively for this book are complemented by expert essays that demonstrate the current paradigm shift in the sustainable urban environment From the Contents *Dense Green Building Types* by Thomas Schröpfer architect Singapore University of Technology and Design *Dense Green Building Technology* by Atelier Ten environmental design consultants and building services engineers New York NY *Dense Green Landscape Design* by Herbert Dreiseitl landscape architect Atelier Dreiseitl Ramboll Liveable Cities Lab Berlin Singapore Portland OR *Dense Green Botanical Design* by Jean Yong plant eco physiologist Singapore University of Technology and Design *Dense Green Urbanism* by Kees Christiaanse urban planner ETH Zurich 25 in depth case studies from Europe Asia and the USA Practice

Reports by Foster Partners WOHA Ken Yeang MVRDV and others **Sustainable Construction** Charles J. Kibert, 2016-04-04 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 *Collaborative Construction Information Management* Geoffrey Shen, Peter Brandon, Andrew Baldwin, 2009-06-02 Most construction projects are large and costly Collaborative working involves two or more stakeholders sharing their efforts and resources to complete the project more effectively and efficiently Collaborative integrative and multi disciplinary teams can tackle the complex issues involved in creating a viable built environment This tends to be looked at from three interrelated perspectives the technological organizational and social and of these the key issue is to improve productivity and enable innovation through the empowerment and motivation of people This book provides insights for researchers and practitioners in the building and construction industry as well as graduate students written by an international group of leading scholars and professionals into the potential use development and limitations of current collaborative technologies and practices Material is grouped into the themes of advanced technologies for collaborative working virtual prototyping in design and construction building information modelling managing the collaborative processes and human issues in collaborative working **Global Perspectives on Eco-Aesthetics and Eco-Ethics** Krishanu Maiti, Soumyadeep Chakraborty, 2019-12-31 Global Perspectives

on Eco Aesthetics and Eco Ethics A Green Critique focuses on the interface of the Anthropocene sustainability ecological aesthetics multispecies relationality and the environment as reflected in literature and culture This book examines how writers have addressed ecological crises and environmental challenges that transcend national cultural political social and linguistic borders It demonstrates how as the environmental humanities developed and emerged as a critical discipline it generated a diverse range of interdisciplinary fields of study such as ecographics ecodesign ecocinema ecotheology ecofeminism ethnobotany ecolinguistics and bioregionalism and formed valuable interdisciplinary networks of critique and advocacy and its contemporary expansion is exceptionally salient to social political and public issues today

Advances in the Leading Paradigms of Urbanism and their Amalgamation Simon Elias Bibri, 2020-06-20 This book explores the recent advances in the leading paradigms of urbanism namely compact cities eco cities and data driven smart cities and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities It addresses these advances by investigating how and to what extent the strategies of compact cities and eco cities and their merger have been enhanced and strengthened through new planning and development practices and are being supported and leveraged by the applied solutions pertaining to data driven smart cities The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales This entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability Sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable world And the big data revolution is set to erupt in cities throughout the world heralding an era where instrumentation datafication and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT Big data and the IoT technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability Indeed they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums wicked problems and significant challenges they inherently embody as complex systems They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data driven science As such they are becoming essential to the functioning of sustainable cities Besides yet knowing to what extent we are making progress towards sustainable cities is problematic adding to the fragmented conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ICT and its novel applications In a nutshell new circumstances require new responses This timely and multifaceted book is intended for a wide readership As such it will appeal to researchers academics urban scientists urbanists planners designers policy makers and futurists as well as all readers interested in sustainable cities and their ongoing and future data driven transformation

Creating Regenerative Cities Herbert Girardet, 2014-09-19 Large modern cities have effectively

declared their independence from nature But while they take up only three percent of the world's land surface their ecological footprints actually cover the entire globe Humanity is building an urban future yet urban resource use is threatening the future of humanity and the natural world To meet the aspirations of city people in both developing and developed countries bold new initiatives are needed Modern cities are an astonishing human achievement As centres of innovation they are humanity's cultural playgrounds Their communication and transport systems have developed a global reach They are attractive to investors because they can offer a vast variety of services at comparatively low per capita costs But are they viable as ecological systems The planning of new cities as well as the retrofit of existing cities needs to undergo a profound paradigm shift Mere sustainable development is not enough To be compatible with natural systems cities need to move away from linear systems of resource use and learn to operate as closed loop circular systems To ensure their long term future they need to develop an environmentally enhancing restorative relationship between themselves and the natural systems on which they still depend Creating Regenerative Cities is a concise solution oriented manual for creating regenerative urbanisation A wide range of technical management and policy solutions already exist but implementation has been too slow and too little in large part because the kinds of holistic approaches needed are still unfamiliar to fragmented and process driven urban policy making and governance Herbert Girardet's 30 years experience as an ecologist thinker film maker and consultant working around the world has created this unique combination of tried and tested best practices and policies which outlines the fundamental shifts needed in the way we think about our cities

Sustainable Cities in the 21st Century Ah Foong Foo, Belinda K. P. Yuen, 1999 This book is about the growth and future development of cities Its collection of nine essays brings together a variegation of views and visions of how we might build sustaining cities into the 21st century with one staying concern a better tomorrow The essays do not profess to provide answers but rather alternative starting points for further explorations and reflections on the meaning of sustainable development for our cities

Big Data Science and Analytics for Smart Sustainable Urbanism Simon Elias Bibri, 2019-05-30 We are living at the dawn of what has been termed the fourth paradigm of science a scientific revolution that is marked by both the emergence of big data science and analytics and by the increasing adoption of the underlying technologies in scientific and scholarly research practices Everything about science development or knowledge production is fundamentally changing thanks to the ever increasing deluge of data This is the primary fuel of the new age which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision making and deep insights pertaining to a wide variety of practical uses and applications This book addresses the complex interplay of the scientific technological and social dimensions of the city and what it entails in terms of the systemic implications for smart sustainable urbanism In concrete terms it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics This new era of science

and technology embodies an unprecedentedly transformative and constitutive power manifested not only in the form of revolutionizing science and transforming knowledge but also in advancing social practices producing new discourses catalyzing major shifts and fostering societal transitions Of particular relevance it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood and in how they are planned designed operated managed and governed in the face of urbanization This relates to what has been dubbed data driven smart sustainable urbanism an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city This is increasingly being directed towards improving advancing and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development This timely and multifaceted book is aimed at a broad readership As such it will appeal to urban scientists data scientists urbanists planners engineers designers policymakers philosophers of science and futurists as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data intensive science and its application particularly in relation to sustainability

Asian Ethical Urbanism William Siew Wai Lim, 2005 The author having lectured widely on subjects relating to architecture and urbanism around the region has in depth knowledge of Asian cities and their urban and architectural conditions The book provides an alternative urbanism addressing the unprecedented urban explosion in the emerging non Western economies and the increasingly prevalent post modern conditions of pluralistic culture tolerance of differences fragmentation and chaotic order The book presents a radical theory of Asian ethical urbanism which transcends and discards the constraints and rigidity of modernist planning and situates its critical substances within the challenging conditions of Asian cities today

Architecture and Globalisation in the Persian Gulf Region Nasser Golzari, 2016-04-15 This is the first book ever to examine the architecture and urbanism of the Persian Gulf as a complete entity dealing equally with conditions on the eastern Iranian shoreline as in Arabic countries on the western side By inviting a range of architects and scholars to write about historical and contemporary influences on 14 cities along both Gulf coastlines the book traces the changes in architecture and human settlement in relation to environmental factors and particularity of place It provides an innovative contribution to the study of architecture and globalisation through a detailed investigation of this particular region investigating how buildings and cities are being shaped as a result A set of thematic essays at the end offer important insights into issues of globalisation urbanism and environmental design drawing from the experience of the Persian Gulf The outcome is a unique record of the Gulf in the early 21st century at a point when global capitalism is making major inroads and yet questions of architectural design climate change ecological sustainability cultural identity and so called Facebook Democracy are likewise shaking up the Middle Eastern region The book thus offers a fresh reading of the architecture and urbanism of a fascinating and often contradictory

region while also showing how globalisation can be analysed in a more engaged and integrated manner **Architecture, Technology and Process** Chris Abel, 2007-03-30 This new selection of essays follows Chris Abel's previous best selling collection *Architecture and Identity* Drawing upon a wide range of knowledge and disciplines the author argues that underlying technological changes in the process of architectural production are fundamental changes in the way we think about machines and the world we live in Key topics include new patterns of urbanism in the fast growing cities of Asia Pacific metaphorical extensions of mind and body in cyberspace the divergent European and North American values shaping Sir Norman Foster's and Frank Gehry's work and the collaborative work methods and technologies creating the adaptable design practices of today Dimensions of Sustainability Andrew Scott, MIT, 2003-09-02 The edited summary of twelve key presentations at an International Design Symposium held at MIT this book presents an important collection of contributions from key designers in the field of environmentally conscious buildings Architecture & Design versus Consumerism Ann Thorpe, 2012-06-14 The mentality that consumerism and economic growth are cures all is one of the biggest obstacles to real sustainability but any change seems impossible unthinkable Our contemporary paradox finds us relying for our well being on consumer driven economic growth that we actually can't afford not in environmental economic or social terms Although architecture and design have long been seen as engines for consumerism and growth increasing numbers of designers are concerned about the problems resulting from growth But designers face a paradox of their own in scenarios of sustainable consumption where people consume or build significantly less what will be left for designers to do This book informed by recent research into the viability of a steady state economy sets an agenda for addressing the designer's paradox of sustainable consumption The agenda includes ways that architecture and design can help transition us towards a new kind of economy that prioritizes real wellbeing rather than economic growth Packed with examples and illustrations the book argues that taking action or activism is an important but so far underexplored way for architects and designers to confront consumerism The first chapters explore how economic growth and consumerism shape and are shaped by the professions of architecture product and landscape design and how we can understand the problem of consumerism as four main challenges that designers are already addressing The book maps out the main issues surrounding the development of metrics that designers and others can use to measure wellbeing instead of simply measuring economic growth The second half of the book looks at how design activism works and its connection to growth and consumerist issues These chapters examine how activist practices are financed highlight five specific methods that designers use in working for social change and investigate the power of these methods The book concludes with a consideration of what design's role might be in a post growth society Southeast Asian Modern Peter Rowe, Yun Fu, 2022-04-19 Southeast Asian modernity an overview Peter Rowe and Yun Fu's second volume on the modernization of architecture in the Far East deals with Southeast Asia and Austronesia including the 12 nation states of Vietnam Cambodia Laos Myanmar Thailand Malaysia Singapore Indonesia Brunei East Timor

Philippines and Taiwan as well as the ocean peoples of Polynesia Melanesia and Micronesia The modern architecture of these culturally and nationally heterogenous regions echoes local vernacular traditions and colonial as well as postcolonial hegemonies from both the East and the West The book tells the stories of these separate roots and their culmination into contemporary architectural production analyzing the distinctiveness and quality of approx 65 building projects that have emerged in the past half century Second volume of the history of Modern architecture in the Far East Excellent photographic presentations of approx 65 buildings Important contribution on the globalization of architecture

Smart Sustainable Cities of the Future Simon Elias Bibri, 2018-02-24 This book is intended to help explore the field of smart sustainable cities in its complexity heterogeneity and breadth the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world Indeed sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms and shaping the way cities will evolve in the future and thus tackle complex challenges This book integrates computer science data science complexity science sustainability science system thinking and urban planning and design As such it contains innovative computer based and data analytic research on smart sustainable cities as complex and dynamic systems It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes It offers contributions pertaining to the ongoing development of computer based and data science technologies for the processing analysis management modeling and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability This book seeks to explicitly bring together the smart city and sustainable city endeavors and to focus on big data analytics and context aware computing specifically In doing so it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability Its strength lies in combining big data and context aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data centric and context aware solutions for enhancing urban systems and facilitating coordination among urban domains This timely and comprehensive book is aimed at a wide audience across science academia industry and policymaking It provides the necessary material to inform relevant research communities of the state of the art research and the latest development in the area of smart sustainable urban development as well as a valuable reference for planners designers strategists and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context aware computing

Advanced Environmental Wind Engineering Yukio Tamura, Ryuichiro Yoshie, 2016-03-25 This book is highly suitable

for advanced courses as it introduces state of the art information and the latest research results on diverse problems in the environmental wind engineering field. The topics include indoor natural ventilation, pedestrian wind environment, pollutant dispersion, urban heat island phenomena, urban ventilation, indoor outdoor thermal comfort, and experimental numerical techniques to analyze those issues. Winds have a great influence on the outdoor environment especially in urban areas. Problems that they cause can be attributed to either strong wind or weak wind issues. Strong winds around high rise buildings can bring about unpleasant and in some cases dangerous situations for people in the outdoor environment. On the other hand, weak wind conditions can also cause problems such as air pollution and heat island phenomena in urban areas. Winds enhance urban ventilation and reduce those problems. They also enhance natural ventilation in buildings which can reduce the energy consumption of mechanical ventilation fans and air conditioners for cooling. Moderate winds improve human thermal comfort in both indoor and outdoor environments in summer. Environmental wind engineering associated with wind tunnel experiments and numerical analysis can contribute to solutions to these issues.

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