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Ecological Modernization in the United Arab Emirates? Smart City Management, Case Study of Masdar City Ecological Modernization in the United Arab Emirates? Integrating Life Cycle Assessment Into the Framework of Environmental Impact Assessment for Urban Systems: Framework and Case Study of Masdar City, Abu Dhabi Spaceship in the Desert Spaceship in the Desert Frankenstein Urbanism Urban Environmentalism Handbook of Research on Smart Technology Applications in the Tourism Industry Transitions to Sustainable Development Sustainability in the Gulf 100% Renewable Eco-Cities and the Transition to Low Carbon Economies Machine Learning for Smart Environments/Cities The Experimental City Handbook of Research on Digital Media and Creative Technologies Resilient and Responsible Smart Cities Smart Cities in the Gulf Advanced Studies in Efficient Environmental Design and City Planning Energopolitics Sustainability in the Gulf The Experimental City Smart Cities in Europe and Asia The New Arab Urban Sustainable Buildings and Infrastructure Climate Change: Reduction: Masdar City Gr. 5-8 Higher Education and Scientific Research in the Arabian Gulf States The Sustainable City VI Sustainable Cities in Asia Advanced Studies in Energy Efficiency and Built Environment for Developing Countries Understanding Metropolitan Landscapes Journal of Contemporary Urban Affairs Vol.5 No. 1., 2021 Energy, Sustainability and the Environment Smart Green Cities Cities' Identity Through Architecture and Arts Future Cities Technology and the City Sustainable Green Urbanism Urban Design in the Arab World Atlas of Cities

The world is struggling with several crises due to the growing population, consumption, production, migration patterns, and the emerging COVID-19. The protection of natural resources and environments has become more important in saving our Planet to provide a

much better future for new generations. Cities must play critical roles in finding new, alternative sustainable and nature-friendly solutions to tackle these problems. Sustainable Green Urbanism (SGU) captures the environmental dimension of urban sustainability. Sustainable Green Urbanism: Envisioning New Agents for Planning and Designing Sustainable Spaces in Ankara is the outcome of collaborative endeavours of studio critics and students of Urban Design Master Studio II held in the Master of Urban Design of the Department of City and Regional Planning at Middle East Technical University. It includes urban design research and projects on the Çayyolu district in Ankara under the post-pandemic conditions via online platforms and dialogues. Smart Green Cities: is a comprehensive overview of what global cities are doing to become sustainable. Woodrow W. Clark II and Grant Cooke have produced a book that is both practical and visionary. They have examined the infrastructure needs - sustainable development, communications, energy, water, waste, and transportation to develop guidelines, processes and best practices. City leaders are key to mitigating climate change who must plan, design and implement solutions. Smart Green Cities (SGC) offers a global perspective that includes implementing the Green Industrial Revolution the title of their last book. SGC discusses innovative emerging technologies, and the new economics paradigm that move beyond the out-dated neo-classical economics. The authors present examples from around the world including Europe, the U.S, China and the Middle East, which discuss the best green technologies from renewable energy power generation to smart on-site grid development. The extraordinary shift from a rural to an urban world is described; national plans are analyzed; so that future cities will be designed, built and implemented now - not 50 years from now. The struggle for the planet's survival is being waged by the world's

cities. Clark and Cooke argue that cities are the key to mitigating climate change and reducing toxic greenhouse gas emissions. SGC introduces sustainable technologies; discusses the economics for implementing the solutions; and offers numerous examples to serve as pathways for cities to become smart, green, and thus carbon neutral. With Asia's cities undergoing unprecedented growth in the 21st century, lauded the 'urban century' by many, *Sustainable Cities in Asia* provides a timely examination of the challenges facing cities across the continent including some of the projects, approaches and solutions that are currently being tested. This book uses numerous case studies, analysing topical issues ranging from city cycling in India, to green spaces in China, to the use of community-led energy generation projects in post-Fukushima Japan. Containing contributions from an international team of scholars, it also takes a multi-disciplinary approach and draws on examples from a wide range of countries, including China, India, Japan, Korea, Taiwan, Singapore and the United Arab Emirates. Ultimately, by providing a comprehensive discussion of the broader debates around the shape of sustainable urbanism, it demonstrates that Asia is one of the most active regions in terms of the development of sustainable city strategies. Tackling the contemporary issues of key importance for sustainability, such as property markets, migration and transport, this book will appeal to students and scholars of Urban Geography, Sustainability, Environmental Studies and Asian studies. In today's modernized society, certain technologies have become more applicable within many professional fields and are much easier to implement. This includes the tourism industry, where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience. As the scope of business analytics continues to expand, professionals need research on the various applications of smart technology within the field of tourism. The *Handbook of Research on Smart Technology Applications in the Tourism Industry* is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships. Featuring research on topics such as digital advertising,

wearable technology, and consumer behavior, this book is ideally designed for travel agents, tour developers, restaurateurs, hotel managers, tour directors, airlines, marketers, researchers, managers, hospitality professionals, policymakers, business strategists, researchers, academicians, and students seeking coverage on the use of smart technologies in tourism. The smart city concept, together with the growing importance of the UN's Sustainable Development Goals, has a significant impact on city management and governance. This book examines real cases of smart city management across Asia and Europe. It covers regions such as Iceland, Estonia, Poland, Germany, India, Indonesia, Malaysia, Singapore, and Vietnam to systemize the knowledge in the field. It evaluates smart cities' efficiency and analyzes and assesses the standards, norms and best practices involved in the management of smart cities. The book answers questions such as what it is that makes smart cities stand out, why some countries in Europe and Asia have more smart cities than others, whether smart cities support the economy and GDP growth of the country, and what the main determinants of forming smart cities in Asia and Europe are. It also evaluates whether smart cities secure higher standards of living for their citizens as compared to regular cities. Many theoretical concepts and theories are developed and then verified from the perspective of Western economies. Central Eastern European and Asian countries are frequently overlooked, thus, examining the smart city idea from the viewpoint of non-Western economies offers a fresh insight into the concept and its adaptation and evolution. The range of issues analyzed in the book are multilayered and approached from a wide array of perspectives, from macroeconomics to management, finance and technology, and public policy. Thus, the book is addressed to researchers, students, and academics who specialize in sustainable and regional development, economic geography, and management. It will also be of interest to urban planners, environmental scientists, and policymakers. The Arab World is perceived to be a region rampant with constructed and ambiguous national identities, overwhelming wealth and poverty, religious diversity, and recently the Arab uprisings, a bottom-up

revolution shaking the foundations of pre-established, long-standing hierarchies. It is also a region that has witnessed a remarkable level of transformation and development due to the accelerated pace imposed by post-war reconstruction, environmental degradation, and the competition among cities for world visibility and tourism. Accordingly, the Arab World is a prime territory for questioning urban design, inviting as it does a multiplicity of opportunities for shaping, upgrading, and rebuilding urban form and civic space while subjecting global paradigms to regional and local realities. Providing a critical overview of the state of contemporary urban design in the Arab World, this book conceptualizes the field under four major perspectives: urban design as discourse, as discipline, as research, and as practice. It poses two questions. How can such a diversity of practice be positioned with regard to current international trends in urban design? Also, what constitutes the specificity of the Middle Eastern experience in light of the regional political and cultural settings? This book is about urban designers 'on the margins': how they narrate their cities, how they engage with their discipline, and how they negotiate their distance from, and with respect to global disciplinary trends. As such, the term margins implies three complementary connotations: on the global level, it invites speculation on the way contemporary urban design is being impacted by the new conceptualizations of center-periphery originating from the post-colonial discourse; on the regional level, it is a speculation on the specificity of urban design thinking and practice within a particular geographical and cultural context (here, the Arab World); and finally, on the local level, it is an Understanding Metropolitan Landscapes considers and reflects on the fundamental relationships between metropolitan regions and their landscapes. It investigates how planning and policy help to protect, manage and enhance the landscapes that sustain our urban settlements. As global populations become more metropolitan, landscapes evolve to become increasingly dynamic and entropic; and the distinction between urban and non-urban is further fragmented and yet these spaces play an increasingly important role in sustainable development. This book opens a key critical discussion into the relational aspects of city and landscape

and how each element shapes the boundaries of the other, covering topics such as material natures, governance systems, processes and policy. It presents a compendium of concepts and ideas that have emerged from landscape architecture, planning, and environmental policy and landscape management. Using a range of illustrated case studies, it provokes discussions on the major themes driving the growth of cities by exploring the underlying tensions around notions of sustainable settlement, climate change adaptation, urban migration, new modes of governance and the role of landscape in policy and decision making at national, provincial and municipal levels. This book introduces machine learning and its applications in smart environments/cities. At this stage, a comprehensive understanding of smart environment/city applications is critical for supporting future research. This book includes chapters written by researchers from different countries across the globe and identifies critical threads in research and also gaps that open up new and challenging lines of research for the future. Recent advances are discussed, and thorough reviews introduce readers to critical domains. The discussion on key research topics presented in this book accelerates smart city and smart environment implementations based on IoT technologies. Consequently, this book supports future research activities aimed at developing future IoT architectures for smart environments/cities. This book focuses on the ways in which resiliency can foster the transformation of cities. There is a growing need for our cities to be transformed into "smart" cities; in this regard, tremendous efforts are called for in order to face the environmental challenges that play a major role in the creation or transformation of cities and environments. This book covers a broad range of applications and approaches that are "smart" and "resilient," which, when combined, offer much more flexibility concerning the future of our cities. Consequently, this simple combination, which is producing sweeping changes around the globe, has attracted considerable attention from scholars and decision-makers alike. In 2006 Abu Dhabi launched an ambitious project to construct the world's first zero-carbon city: Masdar City. In Spaceship in the Desert Gökçe Günel examines the development

and construction of Masdar City's renewable energy and clean technology infrastructures, providing an illuminating portrait of an international group of engineers, designers, and students who attempted to build a post-oil future in Abu Dhabi. While many of Masdar's initiatives—such as developing a new energy currency and a driverless rapid transit network—have stalled or not met expectations, Günel analyzes how these initiatives contributed to rendering the future a thinly disguised version of the fossil-fueled present. Spaceship in the Desert tells the story of Masdar, at once a “utopia” sponsored by the Emirati government, and a well-resourced company involving different actors who participated in the project, each with their own agendas and desires. **This is the chapter slice "Masdar City" from the full lesson plan "Climate Change: Reduction"** Explore creative ways to reduce human consumption and output in an effort to help clean up our planet and reduce operating costs. Advocates and skeptics of Climate Change will both benefit from our valuable resource. Start by looking ahead at Earth's future and finding out how warm it will get. Design your own dream car that runs on alternative fuel. Research different transportation choices in your region and create a pamphlet to showcase them. Find out about product life cycles and what industries can do to lower their emissions. Create a plan of your own green city that will run completely on clean energy. Learn how green buildings work and what components go into creating this fascinating technology. See what other countries are doing to create communities free of carbon dioxide emissions and waste. Then, find out what you can do to lower your own greenhouse gas emissions. Written to Bloom's Taxonomy and STEAM initiatives, additional hands-on activities, crossword, word search, comprehension quiz and answer key are also included. In this edited volume, academics and practitioners from various disciplines investigate the challenges, opportunities and frameworks in the implementation of Smart Cities in the Gulf. The volume presents insightful analyses and identifies key lessons learned through case studies covering four main themes including smart city frameworks and governance, resources and infrastructure, information and communication technologies, and the

social perspective. In doing so, the book provides policy recommendations related to smart governance, as well as overall frameworks that cities can adopt in their process of transition, and knowledge that is integral to bridge the gap between various stakeholders in the Smart City milieu. This edited volume comprises extended versions of papers presented at a workshop held at the University of Cambridge, UK titled “Smart Cities in the GCC: Current State, Opportunities and Challenges.” This book explores how the concept of urban experimentation is being used to reshape practices of knowledge production in urban debates about resilience, climate change governance, and socio-technical transitions. With contributions from leading scholars, and case studies from the Global North and South, from small to large scale cities, this book suggests that urban experiments offer novel modes of engagement, governance, and politics that both challenge and complement conventional strategies. The book is organized around three cross-cutting themes. Part I explores the logics of urban experimentation, different approaches, and how and why they are deployed. Part II considers how experiments are being staged within cities, by whom, and with what effects? Part III examines how entire cities or groups of cities are constructed as experiments. This book seeks to contribute a deeper and more socially and politically nuanced understanding of how urban experiments shape cities and drive wider changes in society, providing a framework to examine the phenomenon of urban experimentation in conceptual and empirical detail. Over the past few decades, there has been a growing concern about the social and environmental risks which have come along with the progress achieved through a variety of mutually intertwined modernization processes. In recent years these concerns are transformed into a widely-shared sense of urgency, partly due to events such as the various pandemics threatening livestock, and increasing awareness of the risks and realities of climate change, and the energy and food crises. This sense of urgency includes an awareness that our entire social system is in need of fundamental transformation. But like the earlier transition between the 1750's and 1890's from a pre-modern to a modern industrial society, this

second transition is also a contested one. Sustainable development is only one of many options. This book addresses the issue on how to understand the dynamics and governance of the second transition dynamics in order to ensure sustainable development. It will be necessary reading for students and scholars with an interest in sustainable development and long-term transformative change. Between 2009 and 2013 Cymene Howe and Dominic Boyer conducted fieldwork in Mexico's Isthmus of Tehuantepec to examine the political, social, and ecological dimensions of moving from fossil fuels to wind power. Their work manifested itself as a new ethnographic form: the duograph—a combination of two single-authored books that draw on shared fieldsites, archives, and encounters that can be productively read together, yet can also stand alone in their analytic ambitions. In his volume, *Energopolitics*, Boyer examines the politics of wind power and how it is shaped by myriad factors, from the legacies of settler colonialism and indigenous resistance to state bureaucracy and corporate investment. Drawing on interviews with activists, campesinos, engineers, bureaucrats, politicians, and bankers, Boyer outlines the fundamental impact of energy and fuel on political power. Boyer also demonstrates how large conceptual frameworks cannot adequately explain the fraught and uniquely complicated conditions on the isthmus, illustrating the need to resist narratives of anthropocentric universalism and to attend to local particularities. Sustainability is a topic of great interest today, particularly for the Gulf Cooperation Council (GCC) countries, which have witnessed very rapid economic and demographic growth over the past decade. The observed growth has led to unsustainable consumption patterns of vital resources such as water, energy, and food, highlighting the need for an urgent shift towards green growth and sustainable development strategies. Sustainability in the Gulf covers the region's contemporary development challenges through the lens of the UN's Sustainable Development Goals (SDGs), which place sustainability at the centre of the solution to the current environmental, economic, and social imbalances facing GCC countries. The book presents multiple analyses of Gulf-specific sustainability topics, examining the current status,

challenges, and opportunities, as well as identifying key lessons learned. Innovative and practical policy recommendations are provided, as well as new conceptual angles to the evolving academic debates on the post-oil era in the Gulf. Through chapters covering sector-related studies, as well as the socio-economic dimensions of the sustainability paradigm, this volume offers valuable insights into current research efforts made by the GCC states, proposing a way forward based on lessons learned. This is a valuable resource for students, academics, and researchers in the areas of Environmental Studies, Political Economy, and Economics of the GCC states. In 2006, the United Arab Emirates initiated the Masdar City project, which was a pre-planned eco-city concentrating on the development and promotion of renewable energy, water and waste management, sustainable building, transportation, and material efficiency. It was the flagship project of what the government considered to be a widespread environmental reform process. This study examines the Masdar City project applying the analytical framework of "ecological modernization" with the help of five "factors", which help to investigate the ongoing reform process. The study finds that Masdar City is more accurately described as an outcome of the Abu Dhabi government's economic diversification strategy. The project is subject to the political and economic interests of the emirate's ruling family. Environmental groups operating within the emirate are connected to the government and pursue policy targets determined by the government. Abstract: Planning urban expansion under the interconnected Sustainable Development Goals requires a systemic analysis of its environmental impacts. The benefits of integrating the widely used system analysis tool life cycle assessment (LCA) into the planning process tool environmental impact assessment (EIA) are described in the literature. However, not many applications of such an integration have been conducted. The aim of this study is to refine the framework for integrating LCA into the process of EIA and to apply this framework to an example of urban expansion: Masdar City in Abu Dhabi. The integrated framework builds on the complementarity between the scope and assessment steps of the tools and assesses the impacts for the areas of protection: human health,

ecosystem, and resources. The framework is then applied to the vehicles, buildings, and infrastructure in the city's first development phase (DP1). Major environmental stressors include the loss of existing desert ecosystem and the utilization of non-renewable sources of energy at various development stages of DP1. Substituting natural gas-based electricity with solar power could potentially save 46% of current carbon emissions. To mitigate the land transformation impacts, construction of "close-to-nature" artificial habitats, and increased use of low-carbon fuels is suggested. This book tells the story of visionary urban experiments, shedding light on the theories that preceded their development and on the monsters that followed and might be the end of our cities. The narrative is threefold and delves first into the eco-city, second the smart city and third the autonomous city intended as a place where existing smart technologies are evolving into artificial intelligences that are taking the management of the city out of the hands of humans. The book empirically explores Masdar City in Abu Dhabi and Hong Kong to provide a critical analysis of eco and smart city experiments and their sustainability, and it draws on numerous real-life examples to illustrate the rise of urban artificial intelligences across different geographical spaces and scales. Theoretically, the book traverses philosophy, urban studies and planning theory to explain the passage from eco and smart cities to the autonomous city, and to reflect on the meaning and purpose of cities in a time when human and non-biological intelligences are irreversibly colliding in the built environment. Iconoclastic and prophetic, *Frankenstein Urbanism* is both an examination of the evolution of urban experimentation through the lens of Mary Shelley's *Frankenstein*, and a warning about an urbanism whose product resembles Frankenstein's monster: a fragmented entity which escapes human control and human understanding. Academics, students and practitioners will find in this book the knowledge that is necessary to comprehend and engage with the many urban experiments that are now alive, ready to leave the laboratory and enter our cities. This book covers a broad range of topics relating to architecture and urban design, such as the conservation of cities' culture and identity through design and

planning processes, various ideologies and approaches to achieving more sustainable cities while retaining their identities, and strategies to help cities advertise themselves on the global market. Every city has its own unique identity, which is revealed through its physical and visual form. It is seen through the eyes of its inhabitants and visitors, and is where their collective memories are shaped. In turn, these factors affect tourism, education, culture & economic prosperity, in addition to other aspects, making a city's identity one of its main assets. Cities' identities are constructed and developed over time and are constantly evolving physically, culturally and sociologically. This book explains how architecture and the arts can embody the historical, cultural and economic characteristics of the city. It also demonstrates how cities' memories play a vital role in preserving their physical and nonphysical heritage. Furthermore, it examines the transformation of cities and urban cultures, and investigates the various new approaches developed in contemporary arts and architecture. Given its scope, the book is a valuable resource for a variety of readers, including students, educators, researchers and practitioners in the fields of city planning, urban design, architecture and the arts. The interplay between smart urban technologies and city development is a relatively uncharted territory. *Technology and the City* aims to fill that gap, exploring the growing importance of smart technologies and systems in contemporary cities, and providing an in-depth understanding of both theoretical and practical aspects of smart urban technology adoption, and its implications for our cities. Beginning with an elaboration of the historical significance of technologies in economic growth, social progress and urban development, Yigitcanlar introduces the most prominent smart urban information technologies. The book showcases significant smart city practices from across the globe that uses smart urban technologies and systems most effectively. It explores the role of these technologies and asks how they can be adopted into the planning, development and management processes of cities for sustainable urban futures. This pioneering volume contributes to the conceptualisation and practice of smart technology and system adoption in our cities by disseminating

both conceptual and empirical research findings with real-world best practice applications. With a multidisciplinary approach to themes of technology and urban development, this book is a key reference source for scholars, practitioners, consultants, city officials, policymakers and urban technology enthusiasts. The author examines the two most advanced eco-city projects: the Sino-Singapore Tianjin Eco-City in China, and Masdar City in Abu Dhabi. These are the most notable attempts at building new eco-cities to both face up to the 'crises' of the modern world and to use the city as an engine for transition to a low-carbon economy. Future Cities For the first time in human history, more than 50% of the world's population lives in urban regions. Cities are the largest, most complex, and most dynamic man-made systems. They are vibrant centers of cultural life and engines that drive the global economy. Contemporary cities are environmentally, socially, and economically unsustainable. The quality of urban life is threatened by such factors as pollution, rising temperatures, limited resources, congestion, social inequalities, aging of large sectors of the world population, poverty, informality, crime, and economic imbalances. The overall planning of future cities is a challenge that can only be faced by interdisciplinary teams combining multitudes of backgrounds and expertise. eCAADe "Education and Research in Computer Aided Architectural Design in Europe" eCAADe covers Europe, Middle East, North Africa and Western Asia and works in collaboration with the four other major international associations in the field: ACADIA, ASCAAD, CAADRIA, CAADFutures and SIGRADI. eCAADe has collaborated with these associations to devise an exciting international Journal for the field called the International Journal of Architectural Computing or short IJAC. The complexity of carbon reduction and economic sustainability is significantly complicated by competing aspects of socioeconomic practices as well as legislative, regulatory, and scientific requirements and protocols. An easy to read and understand guide, Sioshansi, along with an international group of contributors, moves through the maze of carbon reduction methods and technologies, providing steps and insights to meet carbon reduction requirements and maintaining the health and welfare of the firm. The book's three part

treatment is based on a clear and rigorous exposition of a wide range of options to reduce the carbon footprint Part 1 of the book, Challenge of Sustainability, examines the fundamental drivers of energy demand - economic growth, the need for basic energy services, and the interdependence of economic, political, environmental, social, equity, legacy and policy issues. Part 2 of the book, Technological Solutions, examines how energy can be used to support basic energy service needs of homes, commercial and industrial facilities and for other applications. Part 3 of the book, case studies, covers a number of innovative projects, initiatives, concepts or self-imposed targets in different parts of the world with the aim of significantly reducing energy use and carbon footprint of a company, a community, a city or an entire country. There was a widespread recognition among environmental engineers and energy economist of the importance of carbon reduction while sustaining the firm's economic growth. The only book to bring together both subjects into one easy to understand reference, Carbon Reduction and Economic Sustainability not only clearly explains which option has the lowest energy/carbon footprint but also which option would better suit the business in question. This includes carbon reduction for residential, transport, industrial and public sectors. The only book to clearly explain the economic and environmental engineering aspects of carbon reduction. Case studies taken from a number of international projects. Carbon reduction options for all sectors of society. The role of the planning system in carbon reduction. This book takes a closer look at the relation between current issues and trends in higher education and scientific research in the Arab World and in the Gulf Cooperation Council (GCC) states of Qatar and United Arab Emirates (UAE). This thoroughly researched text traces the development of higher education in the GCC area as it continues to be positioned in an intersection of international and local factors. The text further articulates the pivotal political and cultural influences that act as real and perceived barriers towards the advancement of key fields. The chapters analyze the current policy trends, structures, and coping alternatives in addressing higher education challenges, whilst also providing comparative first-hand texts

with the other Arab states in the region. By drawing focus on the GCC area, the text identifies the crucial factors that hamper learning and research performance. The book serves as an invaluable discussion on the implications for policy makers and HEIs in relation to the eponymous regions and other Arab states in the GCC area. Enhancing understanding of the scope, scale, and complexity of higher education and scientific research in the GCC area, the book will be of interest to academics, researchers, and post-graduate students in the fields of educational policy, comparative and international education and higher education. Examines different cities from all over the world and looks at their physical, economic, social, and political structure, as well as their relationships to each other and where future urbanization might be headed. This book explores how the concept of urban experimentation is being used to reshape practices of knowledge production in urban debates about resilience, climate change governance, and socio-technical transitions. With contributions from leading scholars, and case studies from the Global North and South, from small to large scale cities, this book suggests that urban experiments offer novel modes of engagement, governance, and politics that both challenge and complement conventional strategies. The book is organized around three cross-cutting themes. Part I explores the logics of urban experimentation, different approaches, and how and why they are deployed. Part II considers how experiments are being staged within cities, by whom, and with what effects? Part III examines how entire cities or groups of cities are constructed as experiments. This book seeks to contribute a deeper and more socially and politically nuanced understanding of how urban experiments shape cities and drive wider changes in society, providing a framework to examine the phenomenon of urban experimentation in conceptual and empirical detail. Addresses the multi-disciplinary aspects of urban planning, a result of the increasing size of cities, the amount of resources and services required and the complexity of modern society. Innovative tools are required for identifying the high complexity of contemporary cities. It is necessary to provide a more scientific approach to urban studies, inspired by Prigogine's theories of dissipative

structures, and to highlight relations between different systems and between systems and the environment. The challenge of placing sustainable contemporary cities lies in considering the dynamics of urban systems, exchange of energy and matter and the function and maintenance of ordered structures directly or indirectly supplied and maintained by natural systems. The task of researchers, aware of the complexity of the contemporary city, is to increase the capacity to manage human activities pursuing welfare and prosperity in sustainable cities. A critical examination of urban policies and management practices used to make cities sustainable. With an international perspective, the book describes urban environmental agendas and how they arose in the context of globalization, urban economic restructuring, and the need to make cities competitive. It argues that the environment became an integral part of city development policy, turning attention not only to physical and ecological issues but also to improving the economic performance of cities and the lives of citizens. The authors also go beyond the technical issues to explore the political importance of urban environmentalism, using case studies to illustrate both its international scope and place-specific characteristics which are inexorably influencing city development throughout the world. In connecting the concept to its political effects, the book raises issues such as local democracy, equality and social regulation, all of which are increasingly concerning academics, professionals, environmentalists and city authorities alike. In 2006, the United Arab Emirates initiated the Masdar City project, which was a pre-planned eco-city concentrating on the development and promotion of renewable energy, water and waste management, sustainable building, transportation, and material efficiency. It was the flagship project of what the government considered to be a widespread environmental reform process. This study examines the Masdar City project applying the analytical framework of "ecological modernization" with the help of five "factors", which help to investigate the ongoing reform process. The study finds that Masdar City is more accurately described as an outcome of the Abu Dhabi government's economic diversification strategy. The project is subject to the political and

economic interests of the emirate's ruling family. Environmental groups operating within the emirate are connected to the government and pursue policy targets determined by the government. Cities of the Arabian Peninsula reveal contradictions of contemporary urbanization. The fast-growing cities of the Persian Gulf are, whatever else they may be, indisputably sensational. The world's tallest building is in Dubai; the 2022 World Cup in soccer will be played in fantastic Qatar facilities; Saudi Arabia is building five new cities from scratch; the Louvre, the Guggenheim and the Sorbonne, as well as many American and European universities, all have handsome outposts and campuses in the region. Such initiatives bespeak strategies to diversify economies and pursue grand ambitions across the Earth. Shining special light on Dubai, Abu Dhabi, and Doha—where the dynamics of extreme urbanization are so strongly evident—the authors of *The New Arab Urban* trace what happens when money is plentiful, regulation weak, and labor conditions severe. Just how do authorities in such settings reconcile goals of oft-claimed civic betterment with hyper-segregation and radical inequality? How do they align cosmopolitan sensibilities with authoritarian rule? How do these elite custodians arrange tactical alliances to protect particular forms of social stratification and political control? What sense can be made of their massive investment for environmental breakthrough in the midst of world-class ecological mayhem? To address such questions, this book's contributors place the new Arab urban in wider contexts of trade, technology, and design. Drawn from across disciplines and diverse home countries, they investigate how these cities import projects, plans and structures from the outside, but also how, increasingly, Gulf-originated initiatives disseminate to cities far afield. Brought together by noted scholars, sociologist Harvey Molotch and urban analyst Davide Ponzini, this timely volume adds to our understanding of the modern Arab metropolis—as well as of cities more generally. Gulf cities display development patterns that, however unanticipated in the standard paradigms of urban scholarship, now impact the world. This book explains how learning from past mistakes in urban design can help to enhance sustainable cities and how the

principles of Green Urbanism can yield more resilient urban settlements. Environmental design is a fundamental principle in shaping cities. However, environmental challenges like increased resource consumption, water degradation and waste-related issues are among the greatest problems now facing humanity – which is why these issues need to be considered with regard to “smart cities,” either for the development of new urban centers or for the transformation of existing cities. The book not only discusses the importance of integrating sustainability principles in the urban design process, but also demonstrates their application to the development of sustainable cities. As such, the book offers essential information and a source of inspiration for all those who want to build more sustainable cities. The second edition of *Sustainable Buildings and Infrastructure* continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector, including both buildings and infrastructure systems. As a textbook, it is aimed at students taking courses in construction management and the built environment, but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms. Case studies, best practices and highlights of cutting edge research are included throughout, making the book both a core reference and a practical guide. Sustainability is a topic of great interest today, particularly for the Gulf Cooperation Council (GCC) countries, which have witnessed very rapid economic and demographic growth over the past decade. The observed growth has led to unsustainable consumption patterns of vital resources such as water, energy, and food, highlighting the need for an urgent shift towards green growth and sustainable development strategies. Sustainability in the Gulf covers the region's contemporary development challenges through the lens of the UN's Sustainable Development Goals (SDGs), which place sustainability at the centre of the solution to the current environmental, economic, and social imbalances facing GCC countries. The book presents multiple analyses of Gulf-specific sustainability topics, examining the current status, challenges, and opportunities, as well as identifying key lessons

learned. Innovative and practical policy recommendations are provided, as well as new conceptual angles to the evolving academic debates on the post-oil era in the Gulf. Through chapters covering sector-related studies, as well as the socio-economic dimensions of the sustainability paradigm, this volume offers valuable insights into current research efforts made by the GCC states, proposing a way forward based on lessons learned. This is a valuable resource for students, academics, and researchers in the areas of Environmental Studies, Political Economy, and Economics of the GCC states. This edited volume consists of three parts. It is a culmination of selected research papers presented at the second version of the international conference on Improving Sustainability Concept in Developing Countries (ISCDC) and the second version of the international conference on Alternative and Renewable Energy Quest in Architecture and Urbanism (AREQ), organized by IEREK in Egypt, 2017. It discusses major environmental issues and challenges which threaten our future. These include climate change impact, environmental deterioration, increasing demand for energy and new approaches for alternative renewable energy sources which became a necessity for survival. In addition to addressing the different environmental issues witnessed today, research presented in this book stressed on the need of sustainably shaping buildings and cities using renewable energy sources. Topics included in this book are (1) Resilience in the Built Environment, (2) Design for energy-efficient architecture and (3) Alternative and Renewable Energy Resources Quest in Architecture and Urbanism. The book is of interest to researchers and academicians who continuously aim to update their knowledge in these fields, as well as decision makers needing the enough knowledge to carry out the right decisions towards the benefit of the environment and society. In 2006 Abu Dhabi launched an ambitious project to construct the world's first zero-carbon city: Masdar City. In *Spaceship in the Desert* Gökçe Günel examines the development and construction of Masdar City's renewable energy and clean technology infrastructures, providing an illuminating portrait of an international group of engineers, designers, and students who attempted to build a post-oil future in Abu Dhabi. While many of

Masdar's initiatives—such as developing a new energy currency and a driverless rapid transit network—have stalled or not met expectations, Günel analyzes how these initiatives contributed to rendering the future a thinly disguised version of the fossil-fueled present. *Spaceship in the Desert* tells the story of Masdar, at once a “utopia” sponsored by the Emirati government, and a well-resourced company involving different actors who participated in the project, each with their own agendas and desires. Emerging technologies enable a wide variety of creative expression, from music and video to innovations in visual art. These aesthetics, when properly explored, can enable enhanced communication between all kinds of people and cultures. *The Handbook of Research on Digital Media and Creative Technologies* considers the latest research in education, communication, and creative social expression using digital technologies. By exploring advances in art and culture across national and sociological borders, this handbook serves to provide artists, theorists, information communication specialists, and researchers with the tools they need to effectively disseminate their ideas across the digital plane. The greatest challenge of our time is to build a world based on the sustainable use of renewable power. Our massive dependence on fossil fuels has upset the very climatic system that made human evolution possible. The global economy and its financial system are in jeopardy, running hot on overtly cheap yet increasingly costly and fast depleting oil. A 100% renewable world is seen by many as an impossible dream in anything but the very long term. But not only do a growing number of initiatives and plans dare to make the change but many have already achieved it. This rich collection presents a series of pioneering efforts and their champions, and the paths to their successes. Ranging from initiatives by individuals to visions for companies, communities and entire countries, it defeats tired economic and technical counter-arguments, showing how the schemes featured not only can and do work but do so economically and with available technology. The book is introduced by incisive writing by Peter Droege, explaining the challenges and framing a roadmap towards a 100% renewable reality. *Urban Acupuncture in Large Cities: Filtering Framework to Select Sensitive*

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