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*This book focuses on the
ways in which resiliency can*

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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

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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

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*that are “smart” and
“resilient,” which, when
combined, offer much more
flexibility concerning the
future of our cities.*

*Consequently, this simple
combination, which is*

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*producing sweeping
changes around the globe,
has attracted considerable
attention from scholars and
decision-makers alike.*

*Shows how digital media
connects people to their*

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lived environments Every day, millions of people turn to small handheld screens to search for their destinations and to seek recommendations for places to visit. They may share

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texts or images of themselves and these places en route or after their journey is complete. We don't consciously reflect on these activities and probably don't associate these

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*practices with constructing
a sense of place. Critics
have argued that digital
media alienates users from
space and place, but this
book argues that the exact
opposite is true: that we*

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habitually use digital technologies to re-embed ourselves within urban environments. The Digital City advocates for the need to rethink our everyday interactions with digital

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infrastructures, navigation technologies, and social media as we move through the world. Drawing on five case studies from global and mid-sized cities to illustrate the concept of “re-placeing,”

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*Germaine R. Halegoua
shows how different
populations employ urban
broadband networks, social
and locative media
platforms, digital navigation,
smart cities, and creative*

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*placemaking initiatives to
turn urban spaces into
places with deep meanings
and emotional attachments.
Through timely narratives of
everyday urban life,
Halegoua argues that people*

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*use digital media to create a
unique sense of place within
rapidly changing urban
environments and that a
sense of place is integral to
understanding
contemporary relationships*

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with digital media.

The book addresses the sustainability of cities in the context of sustainability science and its application to the city boundary. In doing so it investigates all

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the components of a city on the basis of sustainability criteria. To achieve sustainability it is essential to adopt an integrated strategy that reflects all sectors within the city

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*boundary and also address
the four key normative
concepts: the right to
develop for all sections,
social inclusion,
convergence in living
standards and shared*

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responsibility and opportunities among sectors and sections. In this book, the individual chapters examine the nodes of sustainability of a city and thus essentially present a

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large canvas wherein all sustainability-relevant issues are interwoven. This integrative approach is at the heart of the book and offers an extensive, innovative framework for

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future research on cities and sustainability alike. The book also includes selected case studies that add to the reading and comprehension value of the concepts presented, ensuring a blend

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of theory and practical case studies to help readers better comprehend the principle of sustainability and its application.

The book forming Part I, covers various write-ups on

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current events etc. that appeared in various dailies, my blog and papers presented in various forums till 2015. This will be followed by Part II and Part III covering the periods

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thereafter.

Cities and Sustainability

*Systems, applications and
implications*

Cradle to Cradle

Remaking the Way We Make

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Things

Who Will Finance

Innovation?

Citizens in the 'Smart City'

Sustainability is a topic of great interest today, particularly for the Gulf Cooperation Council (GCC) countries,

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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

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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

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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

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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

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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

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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

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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

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groups operating within the emirate are connected to the government and pursue policy targets determined by the government.

Accelerated Universities provides a unique perspective on the success of eight young, generously-funded universities.

Encyclopedia of Sustainable Technologies

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provides an authoritative assessment of the sustainable technologies that are currently available or in development. Sustainable technology includes the scientific understanding, development and application of a wide range of technologies and processes and their environmental implications. Systems and lifecycle

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analyses of energy systems, environmental management, agriculture, manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes. In addition, the development of clean processes through green chemistry and engineering techniques are also described.

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The book is the first multi-volume reference work to employ both Life Cycle Analysis (LCA) and Triple Bottom Line (TBL) approaches to assessing the wide range of technologies available and their impact upon the world. Both approaches are long established and widely recognized, playing a key role in the

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organizing principles of this valuable work.
Provides readers with a one-stop guide to
the most current research in the field
Presents a grounding of the fundamentals
of the field of sustainable technologies
Written by international leaders in the
field, offering comprehensive coverage of
the field and a consistent, high-quality

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scientific standard Includes the Life Cycle
Analysis and Triple Bottom Line
approaches to help users understand and
assess sustainable technologies

An Intellectual History of the New Town
Movement

Ecological Modernization in the United
Arab Emirates?

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Resilient and Responsible Smart Cities
Digitalization as a Driver for Smart
Economy in the Post-COVID-19 Era
Cities and Adaptation to Climate Change
- Proceedings of the Global Forum 2010
Sustainability in the Gulf
shaping the society of 2030

The interplay between smart

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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

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**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**

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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

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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

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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

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themes of technology and urban development, this book is a key reference source for scholars, practitioners, consultants, city officials, policymakers and urban technology enthusiasts.

Launched in May 2011, the new global magazine Southern

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Innovator is about the people across the global South shaping our new world, eradicating poverty and working towards the achievement of the Millennium Development Goals (MDGs). They are the innovators. Issue 1 covered the theme of mobile

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phones and information technology. Issue 2 covered the theme of youth and entrepreneurship. Issue 3 covered the theme of agribusiness and food security. Issue 4 covers the theme of cities and urbanization.

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The book comes in three parts: "The Rising Sun in a Developing World", "Solar Power for the World" and "PV Today and Forever". It provides a historical summary and gives a comprehensive overview of the present photovoltaic (PV)

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situation worldwide and future strategies for development and implementation. The author is a world leader in PV and all renewable energies. The book is illustrated with about 100 pictures.

How are state leaders adapting

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**their citizen-building strategies
for globalization? What outcomes
are they achieving, and why?
Bedouins into Bourgeois
investigates an ambitious state-
led social engineering campaign
in the United Arab Emirates
(UAE), where leaders aimed to**

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encourage more entrepreneurial, market-friendly, patriotic, and civic-minded citizens, who were still loyal to the regime.

Extensive ethnography - including interviews with a ruling monarch - reveals the rulers' reasoning and goals for social

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engineering. Through surveys and experiments, social engineering outcomes are examined, as well as the reasons for these outcomes. While the campaign successfully increased patriotism and civic spirit, it also led to heightened entitlement -

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greater support for the right to a government job and lessened interest in the private sector - and a rise in 'entitled patriots.'
This fascinating study illustrates how social engineering strategies that use nationalism to motivate citizens can have paradoxical

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**effects, increasing patriotism but
unexpectedly discouraging or
'crowding out' development-
friendly mind-sets.**

Challenges and Opportunities

Global Innovation Index 2020

Accelerated Universities

Governing for Urban Innovation

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The UAE

Smart Cities

Southern Innovator Magazine

Issue 4: Cities and Urbanization

This invaluable text/reference
investigates the state of the art in
approaches to building,

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monitoring, managing, and governing smart cities. A particular focus is placed on the distributed computing environments within the infrastructure of such cities, including issues of device

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connectivity, communication, security, and interoperability. A selection of experts of international repute offer their perspectives on current trends and best practices, and their suggestions for future

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developments, together with case studies supporting the vision of smart cities based on the Internet of Things (IoT).
Topics and features: examines the various methodologies relating to next-level

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urbanization, including approaches to security and privacy relating to social and legal aspects; describes a recursive and layered approach to modeling large-scale resource management systems for self-

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sustainable cities; proposes a novel architecture for hybrid vehicular wireless sensor networks, and a pricing mechanism for the management of natural resources; discusses the challenges and potential

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solutions to building smart city surveillance systems, applying knowledge-based governance, and adopting electric vehicles; covers topics on intelligent distributed systems, IoT, fog computing paradigms, big data

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management and analytics, and smart grids; reviews issues of sustainability in the design of smart cities and healthcare services, illustrated by case studies taken from cities in Japan, India, and Brazil. This

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illuminating volume offers a comprehensive reference for researchers investigating smart cities and the IoT, students interested in the distributed computing technologies used by smart living systems, and

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practitioners wishing to adopt the latest security and connectivity techniques in smart city environments.

Sharjah is well known, not only for its heritage sites, culturally rich sites, and vivid modern

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quarters, but also for its promising business environment and high level of human talent, with all the resources needed to make the next leap. Thanks to the great efforts of its leaders, Emirati students have access to

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world-class level universities, are fluent in several languages, and possess a broad, international outlook that can serve any business format. The Business Year's country-specific publications, sometimes

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featuring over 150 face-to-face interviews, are among the most comprehensive annual economic publications available internationally. This 118-page publication covers finance, investment, energy, green

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economy, IT and media, industry, transport, construction, real estate, health, education, and tourism.

Even with significant reductions of greenhouse gas emissions, a certain degree of climate change

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will inevitably occur. Adapting to climate change, then, will become a necessary step in reducing the vulnerability of many regions across the globe. This is especially true for urban areas where climate change has

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been shown to have particularly destabilizing effects. Through the identification and analysis of the most relevant impacts facing urban areas, this book makes clear the need to incorporate climate change concerns into the

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mainstream of local planning, governance and policy making practices. Adaptation as a workable concept within urban areas cannot be treated in isolation from the many pre-existing challenges facing cities.

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By offering numerous examples of ongoing adaptation programs and strategies across a wide range of contexts, the authors show the growing potential of cities in the fight against climate change. This book has its origins

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in a collection of papers originally presented at the Resilient Cities 2010 Congress in Bonn, Germany (May 2010), the first global forum on cities and adaptation to climate change, convened by ICLEI – Local

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Governments for Sustainability. In this volume, the first in a new series dedicated to this annual event, a range of contributors bring their perspectives to bear on the most pressing issues and controversies surrounding

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adaptation to climate change within cities. These writings will prove invaluable to anyone interested in understanding and confronting climate change at the local level.

For more than 40 years, the

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Historic Documents series has made primary source research easy by presenting excerpts from documents on the important events of each year for the United States and the World. Each volume includes 60 to 70

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events with well over 100 documents from the previous year, from official reports and surveys to speeches from leaders and opinion makers, to court cases, legislation, testimony, and much more.

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Historic Documents is renowned for the well-written and informative background, history, and context it provides for each document. Each volume begins with an insightful essay that sets the year's events in context, and

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each document or group of documents is preceded by a comprehensive introduction that provides background information on the event. Full-source citations are provided. Readers have easy access to

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material through a detailed, thematic table of contents, and each event includes references to related coverage and documents from the last ten editions of the series.

Participation, Co-production,

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Governance

My Reflections

Move off the Grid

Technology and the City

Random Thoughts

Development and Governance

Frameworks

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Development Challenges, South-South Solutions: February 2011 Issue

This book critically examines 'smart city' discourse in terms of governance initiatives,

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citizen participation, and policies which place emphasis on the 'citizen' as an active recipient and co-producer of technological solutions to urban problems. The

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current hype around 'smart cities' and digital technologies has sparked debates in the fields of citizenship, urban studies, and planning surrounding the rights and

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**ethics of participation.
It has also sparked
debates around the forms
of governance these
technologies actively
foster. This book presents
new sociotechnological**

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**systems of governance that
monitor citizen power,
trust-building strategies,
and social capital. It
calls for new data
economics and digital
rights for a city founded**

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on normative ideals rather than neoliberal ones. It adopts a prescriptive approach, arguing that a 'reloaded' smart city should foster citizenship as a new set of civil and

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**social rights and the
'citizen' as a subject
vested with active and
meaningful forms of
participation and
political power.
Ultimately, the book**

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questions the utility of the 'smart city' project for radical municipalism, proposing a technological enough but more democratic city – an 'intelligent city', in fact. Offering

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**useful contributions to
'smart city' initiatives
for the protection of
emerging digital
citizenship rights and
socially accrued benefits,
this book will draw the**

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**interest of researchers,
policymakers, and
professionals in the
fields of urban studies,
urban planning, urban
geography, computing and
technology studies, urban**

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**politics, and urban
economics.**

**Social and environmental
issues are more important
than ever and consumers
are committed to
supporting change. 'Doing**

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**good' is no longer a
peripheral activity but
fundamental to every
aspect of how we do
business, every day, for
everyone. People, Planet,
Profit is the first book**

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to truly address business growth in the context of social and environmental concerns. It's a practical guide to new business opportunity, operational improvement and

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**competitive advantage.
Full of inspiring case
studies, it looks at the
challenges faced by key
players such as Google,
Microsoft, Apple, Nokia,
Nike, Amazon, M&S and**

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Walmart. With plenty of comments from industry insiders, it's essential reading for CEOs and business managers who are searching for new ways to create value, to make

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sense of business in a rapidly shifting landscape, and to deliver profitable growth whilst also doing "the right thing".

This thought-provoking

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book is about the use of solar energy at our home. It is about a solution to the countrys most urgent problem power shortage. The book details basic principles, usage, and

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current development and growth of solar energy in India and around the world, with add-on chapters about other renewables, climate change, energy efficiency,

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**green buildings,
electrical vehicles, etc.
We are proud to present
this first-of-its-kind
book to be published in
India. Even though a few
publications in the**

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subject are available today, most are pure technical for a niche segment. This book is now unique in India with its broad range of interesting subjects of mass appeal

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related to deployment of solar energy, its importance in our daily life, and other related topics and happenings. The introductory chapter of the book looks into the

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**history of solar energy.
The next couple of
chapters get more specific
on solar energy and its
usage. The amazing range
of products that work on
solar energy, which gives**

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us an alternative to grid power, is briefed here next. The next section of the book talks about climate change, its impact on our ecology, and an exhaustive list of

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**organizations working to
combat climate change.
This is followed by the
solar energy utilization
around the world. Indias
power requirements is then
followed by the status of**

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solar power in India, the aggressive action plan of the government of India, a serious look on why to minimize the use of grid power, and then tips for selecting and installing

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the right solar system for your use. The wonderful concept of the worlds first carbon-neutral city comes next, followed by a chapter on the importance of energy efficiency. The

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world of renewables has an astonishing range of power-generation techniques, and this is detailed in the next chapter. This is followed by the chapter on green buildings. The main

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**book comes to a landing
with a chapter on one of
the most promising
conceptelectric vehicles.
This book on contemporary
science and its imminent
use is a well-thought-out**

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**and prepared collection of
useful information for
every discerning reader to
enjoy reading and improve
his/her knowledge on the
subject.**

The book covers the

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**monthly musings of the
author from the year 2011
to 2015 that got manifest
as write-ups in the daily
Greater Kashmir, the daily
Rising Kashmir, the daily
Kashmir Images, selected**

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**extracts from some of the
publications of the
author, some selected
extracts from the blogs of
the author etc. These are
topics of general interest
and set up a new trend in**

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**book formatting.
Resilient Cities
Encyclopedia of
Sustainable Technologies
Volume 1
What You Wanted to Know
about Photovoltaics**

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**¿Qué queremos decir cuando
hablamos de smart cities?
Geopolitics, Modernity and
Tradition
Urban Patterns for a Green
Economy: Clustering for
competitiveness**

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This book examines how contemporary urbanism is influenced by digital and low carbon transitions. From its infancy at the scale of individual buildings, a focus on "green" agenda, energy, and resource efficiency has fostered research and policies for low

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carbon cities, eco-cities, and increasingly intelligent and smarter urban systems. Cities around the world are getting "smarter" as more advanced technology is integrated into urban planning and design. People are relying more on digital and information and

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communication technology (ICT) in their daily lives, while cities are adopting more digital technology to monitor and gather information about people and their environment. This leads to Big Data collection, which is used to inform governance and

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improve urban performance. These transformations, however, raise critical questions, including whether emerging smart sustainable cities are too technocratic, but also with regard to citizen involvement. This brief addresses these important

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contemporary concerns through a review of literature and existing urban strategies. It should be of interest to everyone involved in advancing sustainable cities and smart cities. It should also be a relevant read for students and researchers in this area.

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The COVID-19 pandemic has accelerated the implementation of digital transformation strategies, and there has been an exponential increase in the demand for intelligent and reliable communications solutions. The pandemic brings huge challenges for

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all economic agents, as resilience and the capacity to adapt to new risks and hindrances are now fundamental elements in our societies. In this context, it is essential that digitalization brings opportunities to transition to a smarter economy based on innovation,

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sustainability, and well-being.

Digitalization as a Driver for Smart Economy in the Post-COVID-19 Era discusses digitalization, information and communication technologies, marketing, entrepreneurship, and innovation in an organizational context

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to optimize the practices established in the most diverse domains of knowledge, specifically attending to the relation between digitalization and sustainability in a post-pandemic era. It is ideal for academicians, instructors, researchers, industry professionals,

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business managers, private institutions, and students as it covers a range of key topics such as sustainability and smart economy.

¿Qué queremos decir en realidad cuando hablamos de smart cities? La smart city se ha convertido en un nuevo

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modelo urbano para pensar y diseñar las ciudades en la sociedad conectada. El creciente interés por las ciudades y su sofisticación tecnológica nos invita a comprender el impacto y las consecuencias de cuestiones como el big data, el urbanismo cuantitativo, las

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tecnologías cívicas o la regulación algorítmica. El presente libro quiere ofrecer preguntas y cuestionamientos críticos sobre el significado de las ciudades inteligentes y cómo darles un contexto urbano.

The isolation of graphene in 2004 by

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two scientists at the University of Manchester—a breakthrough later recognised by the Nobel Prize for physics—revealed to the world a brand new “wonder material” which had been “completely hidden from science”. Graphene, the world’s first two-

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dimensional material, promises huge opportunities for a range of sectors, from aerospace to energy to biomedical. But how can the UK be known for "Made in Britain" as well as discovered in Britain? As an answer, this book explores how the Manchester

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model of innovation has evolved to not only support great science but also accelerate the adoption of graphene into real-world products and anchoring an innovation ecosystem in the place of UK discovery. This book features first-hand experience, case studies and

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interviews with key strategic players in the graphene story to illustrate how Manchester has built a unique model of collaboration with industry to create an ecosystem that features a supply chain of companies not only producing graphene material but also starting to

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disrupt the marketplace with new products and application as we approach the tipping point of commercialisation.

Practicing Utopia

The Report: Abu Dhabi 2015

Media and the Social Production of

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Place

Bedouins into Bourgeois

Sustainable Cities

The Global South's Increasing
Urbanization: Challenges to City

Living

The Emergence of Electricity from the

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Sun

Knowledge-Based Urban
Development in the
Middle East IGI Global
Hydrocarbons revenues
still form the bulk of
Abu Dhabi's GDP and

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while falling prices are a concern, the emirate has been moving steadily towards its economic diversification targets in line with Abu Dhabi Economic Vision 2030.

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The past 10 years has seen the non-oil sector expand strongly on the back of business-friendly government policies, as a result of which non-oil sector

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growth now outpaces that of the oil sector. Outside of hydrocarbons, construction and manufacturing represent the biggest GDP contributors in the

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emirate, with the construction sector poised to enter a period of renewed expansion and manufacturing identified as a key area for future growth, leveraging the

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emirate's natural resources, growing downstream capabilities and strategic location. Elsewhere Abu Dhabi's financial sector continues to assert

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itself and the expected 2015 launch of Abu Dhabi Global Market, the UAE's second financial free zone, is expected to boost activity in the sector. Meanwhile

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visitor numbers to Abu Dhabi continue to rise, with around 3.5m arrivals in 2014, up 25% on the previous year. This growth is expected to continue as major

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infrastructure upgrades continue apace. These include the expansion of Abu Dhabi International Airport and the development of the 1200-km wide Etihad rail

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project.

William Gueraiche's work is the first scholarly study of the UAE's campaign to establish itself on the international stage and

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to explore the impact that its economic transformation has had on the country. Emirati society remains at core conservative and the preservation of Arab-

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Islamic identity remains important, yet the UAE has the highest proportion of foreigners of any country in the world. What does this mean for the identity of

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Emiratis living there and what are the implications for foreigners working there? The author also explores the environmental costs of

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the Dubai lifestyle, its 'Look East' policy and increasing volume of trade with eastern Asia, and the ways in which the UAE has sought to challenge the

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traditional hegemony of Saudi Arabia in the region. In a final chapter the author examines the impact of the economic depression that called the whole

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representation of Dubai
into question.

The Global Innovation
Index 2020 provides
detailed metrics about
the innovation
performance of 131

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countries and economies
around the world. Its 80
indicators explore a
broad vision of
innovation, including
political environment,
education,

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infrastructure and
business sophistication.
The 2020 edition sheds
light on the state of
innovation financing by
investigating the
evolution of financing

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mechanisms for
entrepreneurs and other
innovators, and by
pointing to progress and
remaining challenges –
including in the context
of the economic slowdown

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induced by the
coronavirus disease
(COVID-19) crisis.
From Low Carbon to Smart
Sustainable Cities
The Business Year:
Sharjah 2020

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Descifrar las smart
cities

Time

Smart cities

Sustainable Urbanism in

Digital Transitions

Knowledge-Based Urban

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Development in the
Middle East

**This book contains the
proceedings of the seventh in a
series of biennial conferences
on the topic of sustainable
regional development that**

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began in 2003. Organised by the Wessex Institute, the conference series provides a common forum for all scientists specialising in the range of subjects included within sustainable

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development and planning. In order to ensure that planning and development can meet our present needs without compromising future generations, planners, environmentalists, architects,

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engineers, policy makers, and economists must work together The use of modern technologies in planning gives us new potential to monitor and prevent environmental degradation. In recent years,

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in many countries an increase in spatial problems has led to planning crises. Planning problems are often associated with uneven development, deterioration of the quality of urban life, and destruction of

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the environment. The increasing urbanisation of the world, coupled with the global issues of environmental pollution, resource shortage, and economic restructuring, demand that we ensure a

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decent quality of life for our cities. Other environments, such as rural areas, forests, coastal regions, and mountains, face their own problems that urgently require solutions in order to avoid

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irreversible damage. Effective strategies for management should consider planning and regional development, two closely related disciplines, and emphasise the demand to handle these matters in an

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**integrated way. The papers in
the book cover such topics as:
Regional Planning; City
Planning; Sustainability and
the Built Environment;
Cultural Heritage;
Environmental Management;**

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**Environmental Policies and
Planning; Sustainable
Tourism; Resources
Management; Social and
Political Issues; Rural
Developments; Sustainable
Solutions in Emerging**

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**Countries; Transportation;
Energy Resources;
Environmental Economics;
Sustainable Assessment;
Sustainable Development
Indicators; Sustainability
Modelling; Governance;**

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**Resilience; Community
Planning; Planning for
Equality; Quality of Life.
The book describes the
industrial revolution
associated with the
implementation of electric**

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power generation by photovoltaics (PV). The book's editor and contributing authors are among the leading pioneers in PV from its industrial birth in 1954 all the way up to the stormy

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developments during the first decade of the new century. The book describes the dramatic events in industry between 2009 and 2013 and puts all this into perspective. It concludes that solar power is

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**yet to strengthen its role in
technology and in mainstream
of the world's economy.**

**Interest in the sustainable city
is growing around the world
and with it come important
questions about governing**

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**sustainable urban
development. Why are there
blockages to achieving the
goal of a sustainable city? How
is it possible to overcome the
practical difficulties that
initiatives often face? And how**

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**can an increasingly
technocratic focus be
rebalanced with more of a
public perspective? In this
wide-ranging text, Simon Joss
examines mainstream policy
and practice and looks at the**

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approaches that can overcome some of their drawbacks. The author examines the core elements of sustainable planning, and how processes of innovation, governance and policy-making work together to

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achieve sustainable urban change. He assesses the various challenges faced at both the domestic and international level, and across a range of urban scales. These challenges include how to

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**resolve environmentally
problematic ways of city-living
at the same time as providing
for urban social and economic
development, and how to adapt
the idea and reality of the
sustainable city to different**

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geopolitical contexts. The author recognizes that there is no 'one-size-fits-all' solution and examines the range of methods available. In an era where entirely new eco-cities are being built and established

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ones being retro-fitted in response to environmental pressures, this text looks at the varying successes of the urban sustainability movement and its relationship to the planners, policy-makers and

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citizens who are inseparable from it. Providing an accessible account of the latest developments in research and policy as well as examples from around the world, this is indispensable reading for

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students, researchers and practitioners alike.

The knowledge economy has become an important part of contemporary development for cities in a time of globalization and expansion. Examining

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**theories of knowledge transfer
and urban advancement allows
for better adaptation in a
changing global society.
Knowledge-Based Urban
Development in the Middle
East provides emerging**

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research on the contemporary practices of architecture, urban design, and implementation in contemporary Middle Eastern cities. Highlighting a range of pertinent topics, such as

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creative economy, knowledge development, and learning communities, this book is an important resource for academics, researchers, practitioners, and decision makers seeking current

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**research on the issues and
challenges of implementing
knowledge-based urban
development in Middle Eastern
cities.**

The Digital City

Solar Power for the World

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**An IoT Approach
Historic Documents of 2015
People Planet Profit
Power for the World
How to Embrace Sustainability
for Innovation and Business
Growth**

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The typical town springs up around a natural resource—a river, an ocean, an exceptionally deep harbor—or in proximity to a larger, already thriving town. Not so with “new towns,”

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which are created by decree rather than out of necessity and are often intended to break from the tendencies of past development. New towns aren't a new thing—ancient Phoenicians

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named their colonies Qart Hadasht, or New City—but these utopian developments saw a resurgence in the twentieth century. In Practicing Utopia, Rosemary Wakeman gives us a

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sweeping view of the new town movement as a global phenomenon. From Tapiola in Finland to Islamabad in Pakistan, Cergy-Pontoise in France to Irvine in California, Wakeman unspools a

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*masterly account of the
golden age of new towns,
exploring their utopian
qualities and investigating
what these towns can tell us
about contemporary
modernization and urban*

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planning. She presents the new town movement as something truly global, defying a Cold War East-West dichotomy or the north-south polarization of rich and poor countries. Wherever

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these new towns were located, whatever their size, whether famous or forgotten, they shared a utopian lineage and conception that, in each case, reveals how residents and planners

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*imagined their ideal urban
future.*

*A manifesto for a radically
different philosophy and
practice of manufacture and
environmentalism "Reduce,
reuse, recycle" urge*

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environmentalists; in other words, do more with less in order to minimize damage. But as this provocative, visionary book argues, this approach perpetuates a one-way, "cradle to grave"

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manufacturing model that dates to the Industrial Revolution and casts off as much as 90 percent of the materials it uses as waste, much of it toxic. Why not challenge the notion that

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human industry must inevitably damage the natural world? In fact, why not take nature itself as our model? A tree produces thousands of blossoms in order to create another tree,

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yet we do not consider its abundance wasteful but safe, beautiful, and highly effective; hence, "waste equals food" is the first principle the book sets forth. Products might be designed

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*so that, after their useful life,
they provide nourishment for
something new-either as
"biological nutrients" that
safely re-enter the
environment or as "technical
nutrients" that circulate*

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within closed-loop industrial cycles, without being "downcycled" into low-grade uses (as most "recyclables" now are). Elaborating their principles from experience (re)designing everything

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*from carpeting to corporate
campuses, William
McDonough and Michael
Braungart make an exciting
and viable case for change.
This book provides a
comprehensive overview of*

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the practice of sustainability through a diverse range of case studies spanning across varied fields and areas of expertise. It provides a clear indication as to the contemporary state of

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*sustainability in a time faced
by issues such as global
climate change, challenges
of environmental justice,
economic globalization and
environmental
contamination. The Palgrave*

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*Handbook of Sustainability
explores three broad
themes: Environmental
Sustainability, Social
Sustainability and Economic
Sustainability. The authors
critically explore these*

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themes and provide insight into their linkages with one another to demonstrate the substantial efforts currently underway to address the sustainability of our planet. This handbook is an

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*important contribution to the
best practises on
sustainability, drawn from
many different examples
across the fields of
engineering, geology,
anthropology, sociology,*

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*biology, chemistry and
religion.*

Graphene

*Case Studies and Practical
Solutions*

*Ideas and Money Combine to
Build Academic Excellence*

**File Type PDF Pioneering
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*The Palgrave Handbook of
Sustainability*

*Sustainable Development
and Planning VII*

*Machine Learning for Smart
Environments/Cities*

The Route to

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Commercialisation