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to urban designers and governors to
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sustainable urban future. This book
will be invaluable both in informing
the next generation of urban
planners, architects and engineers,
and as a tool to current professionals
that will directly contribute to the

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On January 30-31, 2019 the Board on
Mathematical Sciences and Analytics,
in collaboration with the Board on

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and the Computer Science and
Telecommunications Board,
convened a workshop in Washington,
D.C. to explore the frontiers of
mathematics and data science needs
for sustainable urban communities.
The workshop strengthened the

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Emerging interdisciplinary network of
practitioners, business leaders,
government officials, nonprofit
stakeholders, academics, and policy
makers using data, modeling, and
simulation for urban and community
sustainability, and addressed
common challenges that the

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community faces. Presentations
highlighted urban sustainability
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research efforts and programs under
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way, including research into air
quality, water management, waste
disposal, and social equity and
discussed promising urban
sustainability research questions that

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improved use of big data, modeling, and simulation can help address. This publication summarizes the presentation and discussion of the workshop.

This book is devoted to the modeling and understanding of complex urban

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Systems. This second volume of
Understanding Complex Urban
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Systems focuses on the challenges of
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the modeling tools, concerning, e.g.,
the quality and quantity of data and
the selection of an appropriate
modeling approach. It is meant to
support urban decision-

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makers—including municipal
politicians, spatial planners, and
citizen groups—in choosing an
appropriate modeling approach for
their particular modeling
requirements. The contributors to this
volume are from different disciplines,
but all share the same goal:

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Optimizing the representation of
complex urban systems. They present
and discuss a variety of approaches
for dealing with data-availability
problems and finding appropriate
modeling approaches—and not only
in terms of computer modeling. The
selection of articles featured in this

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volume reflect a broad variety of new and established modeling approaches such as: - An argument for using Big Data methods in conjunction with Agent-based Modeling; - The introduction of a participatory approach involving citizens, in order to utilize an Agent-

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based Modeling approach to simulate urban-growth scenarios; - A presentation of semantic modeling to enable a flexible application of modeling methods and a flexible exchange of data; - An article about a nested-systems approach to analyzing a city ' s interdependent

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Subsystems (according to these
subsystems ' different velocities of
change); - An article about methods
that use Luhmann ' s system theory
to characterize cities as systems that
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that demonstrates how the Sen-
Nussbaum Capabilities Approach can

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be used in urban systems to measure household well-being shifts that occur in response to the resettlement of urban households; - A final article that illustrates how Adaptive Cycles of Complex Adaptive Systems, as well as innovation, can be applied to gain a better understanding of cities and

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to promote more resilient and more
sustainable urban futures.

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We are living at the dawn of what has
been termed ‘ the fourth paradigm
of science, ’ a scientific revolution
that is marked by both the
emergence of big data science and

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analytics, and by the increasing
adoption of the underlying
technologies in scientific and
scholarly research practices.
Everything about science
development or knowledge
production is fundamentally
changing thanks to the ever-

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Increasing deluge of data. This is the primary fuel of the new age, which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision-making, and deep insights pertaining to a wide variety of practical uses and applications.

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This book addresses the complex
interplay of the scientific,
technological, and social dimensions
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terms of the systemic implications for
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shifts and practical advances it is
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undergoing in light of big data
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science and technology embodies an
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only in the form of revolutionizing
science and transforming knowledge,
but also in advancing social practices,
producing new discourses, catalyzing
major shifts, and fostering societal
transitions. Of particular relevance, it
is instigating a massive change in the
way both smart cities and sustainable

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cities are studied and understood,
and in how they are planned,
designed, operated, managed, and
governed in the face of urbanization.
This relates to what has been dubbed
data-driven smart sustainable
urbanism, an emerging approach
based on a computational

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Understanding of city systems and
processes that reduces urban life to
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procedures, while also harnessing
urban big data to provide a more
holistic and integrated view or
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is increasingly being directed towards

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sustainable cities and smart cities to
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development. This timely and
multifaceted book is aimed at a broad
readership. As such, it will appeal to
urban scientists, data scientists,

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Urbanists, planners, engineers,
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A textbook that introduces
integrated, sustainable design of
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civil engineering, environmental

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perspective, with an emphasis on
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transcends disciplinary boundaries by
viewing urban infrastructures as
integrated networks. The text

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devotes a chapter to each of five
engineering systems—electricity,
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fundamentals, demand,
management, technology, and
analytical models. Other chapters
present a formal definition of

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Sustainability; discuss population
forecasting techniques; offer a history
of urban planning, from the Neolithic
era to Kevin Lynch and Jane Jacobs;
define and discuss urban metabolism
and infrastructure integration,
reviewing system interdependencies;
and describe approaches to urban

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design that draw on complexity theory, algorithmic models, and machine learning. Throughout, a hypothetical city state, Civitas, is used to explain and illustrate the concepts covered. Each chapter includes working examples and problem sets. An appendix offers tables, diagrams,

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and conversion factors. The book can
be used in advanced undergraduate
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This book explores the recent advances in the leading paradigms of urbanism, namely compact cities, eco-cities, and data-driven smart cities, and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities. It

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addresses these advances by
investigating how and to what extent
the strategies of compact cities and
eco-cities and their merger have been
enhanced and strengthened through
new planning and development
practices, and are being supported
and leveraged by the applied

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Solutions pertaining to data-driven smart cities. The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales. This entails developing and implementing more effective approaches to the balanced integration of the three dimensions

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of sustainability, as well as to
producing combined effects of the
strategies and solutions of the
prevailing approaches to urbanism
that are greater than the sum of their
separate effects in terms of the
tripartite value of sustainability.
Sustainable urban development is

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today seen as one of the keys towards unlocking the quest for a sustainable world. And the big data revolution is set to erupt in cities throughout the world, heralding an era where instrumentation, datafication, and computation are increasingly pervading the very fabric of cities and

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the spaces we live in thanks to the
IoT. Big data and the IoT technologies
are seen as powerful forces that have
tremendous potential for advancing
urban sustainability. Indeed, they are
instigating a massive change in the
way sustainable cities can tackle the
kind of special conundrums, wicked

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problems, and significant challenges they inherently embody as complex systems. They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data-driven science. As such, they are becoming essential to the

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Sustaining of Sustainable Cities.
Besides, yet knowing to what extent
we are making progress towards
sustainable cities is problematic,
adding to the fragmented, conflicting
picture that arises of change on the
ground in the face of the escalating
rate and scale of urbanization and in

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the light of emerging ICT and its novel applications. In a nutshell, new circumstances require new responses. This timely and multifaceted book is intended for a wide readership. As such, it will appeal to researchers, academics, urban scientists, urbanists, planners, designers, policy-

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makers, and futurists, as well as all
readers interested in sustainable
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cities and their ongoing and future
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data-driven transformation.

This book is thematically positioned
at the intersections of Urban Design,
Architecture, Civil Engineering and

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Computer Science, and it has the goal
to provide specialists coming from
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respective fields a multi-angle
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overview of state-of-the-art work
currently being carried out. It
addresses both newcomers who wish
to obtain more knowledge about this
growing area of interest, as well as

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established researchers and
practitioners who want to keep up to
date. In terms of organization, the
volume starts out with chapters
looking at the domain at a wide-angle
and then moves focus towards
technical viewpoints and approaches.

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As urban populations rise rapidly and concerns about food security increase, interest in urban agriculture has been renewed in both developed and developing countries. This book focuses on the sustainable development of urban agriculture and its relationship to food planning

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in cities. It brings together the best
revised and updated papers from the
Sixth Association of European Schools
of Planning (AESOP) conference on
Sustainable Food Planning. The main
emphasis is on the latest research and
thinking on spatial planning and
design, showing how urban

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agriculture provides opportunities to
develop and enhance the spatial
quality of urban environments.
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Chapters address various topics such
as a new theoretical model for
understanding urban agriculture,
how urban agriculture contributes to
restoring our connections to nature,

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and the limitations of the garden city concept to food security. Case studies are included from several European countries, including Bulgaria, France, Germany, Italy, Netherlands, Romania, Spain, Turkey and the UK, as well as Australia, Canada, Cameroon, Ethiopia and the United

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A bold reassessment of "smart cities" that reveals what is lost when we conceive of our urban spaces as computers Computational models of urbanism—smart cities that use data-driven planning and algorithmic

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Administration—promise to deliver
new urban efficiencies and
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conveniences. Yet these models limit
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our understanding of what we can
know about a city. A City Is Not a
Computer reveals how cities
encompass myriad forms of local and
indigenous intelligences and

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knowledge institutions, arguing that these resources are a vital supplement and corrective to increasingly prevalent algorithmic models. Shannon Mattern begins by examining the ethical and ontological implications of urban technologies and computational models,

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discussing how they shape and in
many cases profoundly limit our
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engagement with cities. She looks at
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the methods and underlying
assumptions of data-driven urbanism,
and demonstrates how the "city-as-
computer" metaphor, which
undergirds much of today's urban

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policy and design, reduces place-based knowledge to information processing. Mattern then imagines how we might sustain institutions and infrastructures that constitute more diverse, open, inclusive urban forms. She shows how the public library functions as a steward of

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urban intelligence, and describes the scales of upkeep needed to sustain a city's many moving parts, from spinning hard drives to bridge repairs. Incorporating insights from urban studies, data science, and media and information studies, *A City Is Not a Computer* offers a visionary

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This book is a printed edition of the
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