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A volume in the Remote Sensing Handbook series, Remotely Sensed Data Characterization, Classification, and Accuracies documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Land Resources Monitoring, Modeling, and Mapping with Remote Sensing, and Remote Sensing of

Considers migration to, from and within Ireland in the twenty-first century, covering the Celtic Tiger era of mass immigration to Ireland as well as the dramatic growth in levels of emigration that has occurred since the Irish economic collapse.

This proceedings volume contains papers presented at the 2015 International Conference on Management and Technology in Knowledge, Service, Tourism & Hospitality (SERVE 2015), covering a wide range of topics in the fields of knowledge and service management, web intelligence, tourism and hospitality. This overview of current state of affair

Mastering Primary Geography introduces the primary geography curriculum and helps trainees and teachers learn how to plan and teach inspiring lessons that make learning geography irresistible. Topics covered include: · Current developments in geography · Geography as an irresistible activity · Geography as a practical activity · Skills to develop in geography · Promoting curiosity · Assessing children in geography · Practical issues This guide includes examples of children's work, case studies, readings to reflect upon and reflective questions that all help to show students and teachers what is considered to be best and most innovative practice, and how they can use that knowledge in their own teaching to the greatest effect. The book draws on the experience of two leading professionals in primary geography, Anthony Barlow and Sarah Whitehouse, to provide the essential guide to teaching geography

for all trainee and qualified primary teachers.

This book takes inventory of and evaluates the available resources for the development of alternative tourism in Turkey. It examines the role of alternative tourism in future tourism development plans and proposes public policies necessary to assure sustainability. Although tourism started later in Turkey than in the Western Mediterranean countries it has grown very rapidly during the last three decades and today the country ranks among the top ten countries in the world in terms of both arrivals and receipts. However, most of the tourism development has been in the mass tourism sector or the so-called sun-sea-sand tourism. While crucial for the economic development of Turkey, mass tourism, in the absence of proper planning, has happened in a haphazard manner leading to numerous environmental and socio-cultural problems. This book argues that, in order to mitigate these problems, Turkey should encourage the development of alternative forms of tourism.

This book argues that the international refugee regime and its 'temporary' humanitarian interventions have failed. Most refugees across the global live in 'protracted' conditions that extend from years to decades, without legal status that allows them to work and establish a home. It is contended that they become largely invisible to people based in the global North, and cease to remain fully human subjects with access to their political lives. Shifting the conversation away from the salient discourse of 'solutions' and technical fixes within state-centric international relations, the authors recover the subjectivity lost for those stuck in extended exile. The book first argues that humanitarian assistance to refugees remains vital to people's survival, even after the emergency phase is over. It then connects asylum politics in the global North with the intransigence of extended exile in the global South. By placing the urgent crises of protracted exile

within a broader constellation of power relations, both historical and geographical, the authors present research and empirical findings gleaned from refugees in Iran, Kenya and Canada and from humanitarian and government workers. Each chapter reveals patterns of power circulating through the 'colonial present', Cold War legacies, and the global 'war on terror'. Seeking to render legible the more quotidian struggles and livelihoods of people who find themselves defined as refugees, this book will be of great interest to international humanitarian agencies, as well as migration and refugee researchers, including scholars in refugee studies and human displacement, human security, globalization, immigration, and human rights.

This new Handbook is a comprehensive collection of cutting-edge essays on all aspects of Latin American Security by a mix of established and emerging scholars. The Routledge Handbook of Latin American Security identifies the key contemporary topics of research and debate, taking into account that the study of Latin America's comparative and international politics has undergone dramatic changes since the end of the Cold War, the return of democracy and the re-legitimization and re-armament of the military against the background of low-level uses of force short of war. Latin America's security issues have become an important topic in international relations and Latin American studies. This Handbook sets a rigorous agenda for future research and is organised into five key parts: • The Evolution of Security in Latin America • Theoretical Approaches to Security in Latin America • Different 'Securities' • Contemporary Regional Security Challenges • Latin America and Contemporary International Security Challenges With a focus on contemporary challenges and the failures of regional institutions to eliminate the threat of the use of force among Latin Americans, this Handbook will be of great interest to students of Latin American politics, security studies, war

and conflict studies and International Relations in general.

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Southeastern Geographer is published by UNC Press for the Southeastern Division of the Association of American Geographers (www.sedaag.org). The quarterly journal publishes the academic work of geographers and other social and physical scientists, and features peer-reviewed articles and essays that reflect sound scholarship and contain significant contributions to geographical understanding, with a special interest in work that focuses on the southeastern United States.

Mentoring Geography Teachers in the Secondary School supports both new and experienced mentors in developing their knowledge and skills in mentoring in geography education. Within the book, chapter authors critically consider how mentoring has been conceptualised and represented in policy and academic debate, as well as examining how mentoring in geography education has been experienced and perceived in practice. Chapters in the book explore a range of perspectives, experiences and aspects of mentoring geography teachers, including:

- Critical engagement with educational policy and practice
- Perspectives from beginning geography teachers
- Mentoring as a professional development opportunity
- The value of engaging with the geography education

community in teacher education

- How mentoring meetings and conversations can support beginning geography teachers in their growth and development

This book is a vital source of support and inspiration for all those involved in developing the next generation of geography teachers. The themes of justice, agency and voice - raised and engaged with implicitly and explicitly throughout this edited collection - are of critical importance to mentors, beginning teachers and geography education more broadly in developing and enacting a progressive vision of mentoring.

Social Innovation is emerging as an alternate interdisciplinary development pathway of knowledge and practice that aims to understand and address contemporary complexities and multi-dimensional social realities. BEPA (2011) defines social innovation as, 'innovations that are social in both their ends and means'. However, though Social Innovation is a widely-used term; its conceptual understanding and the specific relation to social change remains under explored. People Centered Social Innovation: Global perspectives on an Emerging Paradigm attempts to revisit and extend the existing understanding of Social Innovation in practice by focusing upon the lived realities of marginalized groups and communities. The emerging field of people-centered development is placed in dialogue with theory and concepts from the more established field of social innovation to create a new approach; one that adopts a global perspective, engaging with very different experiences of marginality across the global north and south. Theoretically, 'People Centered Social Innovation: Global Perspectives on an Emerging Paradigm' draws upon 'northern' understandings of change and improvement as well as 'southern' theory concerns for epistemological diversity and meaning making. The result is an experiment aimed at reimagining research and practice that seriously needs to center the actor in processes of social transformation.

In The History of Music Production, Richard James Burgess draws on his experience as a producer, musician, and author. Beginning in 1860 with the first known recording of an acoustic sound and moving forward chronologically, Burgess charts the highs and lows of the industry throughout the decades and concludes with a discussion on the present state of music production. Throughout, he tells the story of the music producer as both artist and professional, including biographical sketches of key figures in the history of the industry, including Fred Gaisberg, Phil Spector, and Dr.

Dre. Burgess argues that while technology has defined the nature of music production, the drive toward greater control over the process, end result, and overall artistry come from producers. The result is a deeply knowledgeable book that sketches a critical path in the evolution of the field, and analyzes the impact that recording and disseminative technologies have had on music production. A key and handy reference book for students and scholars alike, it stands as an ideal companion to Burgess's noted, multi-edition book The Art of Music Production.

The United States and 11 other countries from both sides of the Pacific are currently negotiating the Trans-Pacific Partnership (TPP). The agreement is expected to set new benchmark for international trade through its comprehensive coverage of issues and binding regulations. It is expected to eventually mature into a regional trade agreement covering the entire Asia-Pacific. As of now, it does not include China and India, the two largest emerging markets and regional economies. The TPP has generated controversy for its excessive emphasis on trade issues, which have remained unresolved or unaddressed at the WTO due to differences between developed and emerging markets. It has also been criticized for adopting a negotiating style reflecting the US regulatory approach to international trade and also as a geo-political strategy of the US for supporting its strategic rebalancing towards Asia. From both economic and geo-political perspectives, the TPP has various significant implications for China and India that are examined in the book. This book sheds light on how China and India's entries in the TPP are mutually beneficial and how both countries can gain from the TPP by gaining preferential access to large markets and using it as an opportunity for introducing more outward-oriented reforms. The book also cautions that US must reconcile to the rebalancing of economic power within the grouping that will occur following the entries of China and India. Otherwise, the TPP and China and India might walk divergent paths and trade and regional integration in Asia-Pacific may not ever converge. This book will interest anyone who wishes to learn more about the TPP and its future implications and challenges and China and India's roles in global and regional trade.

The European economic crisis has been ongoing since 2008 and while austerity has spread over the continent, it has failed to revive economies. The media have played an important ideological role in presenting the policies of economic and political elites in a

favourable light, even if the latter's aim has been to shift the burden of adjustment onto citizens. This book explains how and why, using a critical political economic perspective and focusing on the case of Ireland. Throughout, Ireland is compared with contemporary and historical examples to contextualise the arguments made. The book covers the housing bubble that led to the crash, the rescue of financial institutions by the state, the role of the European institutions and the International Monetary Fund, austerity, and the possibility of leaving the eurozone for Europe's peripheral countries. Through a systematic analysis of Ireland's main newspapers, it is argued that the media reflect elite views and interests and downplay alternative policies that could lead to more progressive responses to the crisis.

One of the most significant factors for contemporary international relations is the growth of China's economic, military, and political power. Indeed, few analysts would dispute the observation that China's power has strongly influenced the structure of the international system, major-power strategic relations, international security, the patterns of trans-border economic activities, and most importantly, the political and security dynamics in Asia in the twenty-first century. This book maps the growth of China's political, economic, and military capabilities and its impact on the security order in Asia over the coming decades. While updating the emerging power dimensions and prevailing discourse, it provides a nuanced analysis of whether the growth of Chinese power is resulting in Beijing becoming more assertive, or even aggressive, in its behavior and pursuit of national interests. It also examines how the key Asian countries perceive and react to the growth of China's power and how US rebalancing would play out in the context of Beijing's political, economic, and military power. China's Power and Asian Security will be of huge interest to student and scholars of Asian politics, Chinese politics, security studies and international security and international relations more generally.

Globalization affects urban communities in many ways. One of its manifestations is increased intercity competition, which compels cities to increase their attractiveness in terms of capital, entrepreneurship, information, expertise and consumption. This competition takes place in an asymmetric field, with cities trying to find the best possible ways of using their natural and created assets, the latter including a naturally evolving reputation or consciously developed competitive identity or brand. The Political

Economy of City Branding discusses this phenomenon from the perspective of numerous post-industrial cities in North America, Europe, East Asia and Australasia. Special attention is given to local economic development policy and industrial profiling, and global city rankings are used to provide empirical evidence for cities' characteristics and positions in the global urban hierarchy. On top of this, social and urban challenges such as creative class struggle are also discussed. The core message of the book is that cities should apply the tools of city branding in their industrial promotion and specialization, but at the same time take into account the special nature of their urban communities and be open and inclusive in their brand policies in order to ensure optimal results. This book will be of interest to scholars and practitioners working in the areas of local economic development, urban planning, public management, and branding.

Type of Book: 2022 Edition - NTA UGC NET/JRF/SET Paper II (Geography) Subject - NTA UGC NET/JRF/SET (Geography Paper-2) Index - - Cover 28 Solved Papers December 2012 to 2021 - 1900+ Solved Questions with Answers for Practice Qualities Easy & Understandable for Preparation Complete syllabus accommodated with all the recent changes Based On Recently Updated Syllabus Latest Solved Papers Include

Urban population growth is extremely rapid across Africa and this book places urban food and nutrition security firmly on the development and policy agenda. It shows that current efforts to address food poverty in Africa that focus entirely on small-scale farmers, to the exclusion of broader socio-economic and infrastructural approaches, are misplaced and will remain largely ineffective in ameliorating food and nutrition insecurity for the majority of Africans. Using original data from the African Food Security Urban Network's (AFSUN) extensive database it is demonstrated that the primary food security challenge for urban households is access to food. Already linked into global food systems and value chains, Africa's supply of food is not necessarily in jeopardy. Rather, the widespread poverty and informal urban fabric that characterizes Africa's emerging cities impinge directly on households' capacity to access food that is readily available. Through the analysis of empirical data collected from 6,500 households in eleven cities in nine countries in Southern Africa, the authors identify the complexity of factors and dynamics that create the circumstances of widespread food and nutrition insecurity under which

urban citizens live. They also provide useful policy approaches to address these conditions that currently thwart the latent development potential of Africa's expanding urban population.

Understanding World Regional Geography (UWRG) is a course designed to teach students to think and apply geographic concepts long after the course is over. Author Erin Fouberg draws from her expertise in geography education and research in student learning to create a product that has a strong pedagogical framework designed to engage students and deepen their understanding of the world by having them "DO" Geography. UWRG includes features that help students learn to read cultural and physical landscapes, ask geographic questions, apply geographic concepts, and make connections. It integrates 25 threshold concepts and teaches students how geographers apply these concepts and asks them to apply these concepts themselves. This enables them to grasp the complexities of the world and provides them with the knowledge and thinking skills necessary to understanding it. UWRG is the first introductory course to integrate ESRI ArcGIS Online thematic maps, enabling students to engage with course materials, see patterns, and answer geographic questions.

The Routledge Handbook of Gender and Agriculture covers major theoretical issues as well as critical empirical shifts in gender and agriculture. Gender relations in agriculture are shifting in most regions of the world with changes in the structure of agriculture, the organization of production, international restructuring of value chains, climate change, the global pandemic, and national and multinational policy changes. This book provides a cutting-edge assessment of the field of gender and agriculture, with contributions from both leading scholars and up-and-coming academics as well as policymakers and practitioners. The handbook is organized into four parts: part 1, institutions, markets, and policies; part 2, land, labor, and agrarian transformations; part 3, knowledge, methods, and access to information; and part 4, farming people and identities. The last chapter is an epilogue from many of the contributors focusing on gender, agriculture, and shifting food systems during the coronavirus pandemic. The chapters address both historical subjects as well as ground-breaking work on gender and agriculture, which will help to chart the future of the field. The handbook has an international focus with contributions examining issues at both the global and local levels with contributors from across the world. With contributions from leading aca-

demics, policymakers, and practitioners, and with a global outlook, the Routledge Handbook of Gender and Agriculture is an essential reference volume for scholars, students, and practitioners interested in gender and agriculture.

At a time when transport is high on the political agenda and government decision-making is being vigorously scrutinised, there is a need for an incisive and accessible analysis of the key policy issues. This book is a highly readable introduction to the transport debate from two experts in the field. The authors celebrate the advantages of a modern transport system, but argue that years of poorly conceived and executed transport policy have resulted in Britain's transport system being far worse than it should be. They show that a substandard transport system creates economic, social and environmental costs, but demonstrate how these can be addressed through affordable and politically deliverable changes. Using a refreshingly novel approach, Shaw and Docherty use the familiar idea of the journey as the basis for their discussion. The book follows members of the Smith family as they uncover a wide array of transport issues, including why the problems we all encounter as we travel around actually come about; which policy trade-offs were responsible for creating them in the first place; what impacts we all have to suffer as a result; and what we can do to fix them. This lively and engaging approach will make the book ideal for a wide readership.

The Amazon region is the focus of intense conflict between conservationists concerned with deforestation and advocates of agro-industrial development. This book focuses on the contributions of environmental organizations to the preservation of Brazilian Amazonia. It reveals how environmental organizations such as Greenpeace, Friends of the Earth, WWF and others have fought fiercely to stop deforestation in the region. It documents how the history of frontier expansion and environmental struggle in the region is linked to Brazil's position in an evolving capitalist world-economy. It is shown how Brazil's effort to become a developed country has led successive Brazilian governments to devise development projects for Amazonia. The author analyses how globalization has led to the expansion of international commodity chains in the region, particularly for mineral ores, soybeans and beef. He shows how environmental organizations have politicized these commodity chains as weapons of conservation, through boycotting certain products, while other pro-development groups within Brazil claim

that such organizations threaten Brazil's sovereignty over its own resources.

Climate Terror engages with a highly differentiated geographical politics of global warming. It explores how fear-inducing climate change discourses could result in new forms of dependencies, domination and militarised 'climate security'.

The Geography of the World Economy provides an in-depth and stimulating introduction to the globalization of the world economy. The book offers a consideration of local, regional, national and global economic development over the long historical term. The theory and practice of economic and political geography provide a basis for understanding the interactions within and among the developed and developing countries of the world. Illustrated in color throughout, this new edition has been completely reworked and updated to take account of recent significant changes in the world economy. A new companion website also accompanies the book, with additional resources for each chapter including multiple choice and short essay questions and links to relevant websites. Figures and tables are also available for download located at www.routledge.com/cw/knox The text is signposted throughout with a glossary of key terms, and is richly illustrated with full-color maps, diagrams and illustrations. It is ideal for upper level university undergraduates and for post-graduates in a variety of specializations including geography, economics, political science, international relations and global studies.

This book offers a multifaceted examination of Africa's development into the post-2015 global agenda from a geographical perspective. As a diversified and highly applied discipline, geography has a lot to offer to global debates, nuanced analysis of problems on and the search for innovative solutions to advance the African development agenda beyond 2015. The end of the Millennium Development Goals (MDGs) era and the launch of the Sustainable Development Goals (SDGs) in September 2015 mark an important turning point for Africa and an opportune time to examine new challenges and opportunities that it faces. The regional disparities in MDG progress affirm an important geographic tenet that the unique yet internally differentiated socio-cultural, economic, political, ecological, biophysical and historical context give Africa distinctive challenges and opportunities that demand particular approaches to development. This edited book presents innovative contributions examining Africa's development performance in di-

verse sectors during the MDG era as a basis for understanding prospects for its development in the SDG era and beyond. It offers new and innovative study perspectives and methodological approaches on urban transformation, development financing, food security, climate change, gender equality, health, and regional integration, among other topics, and useful insights for scholars, students and development practitioners. This book was originally published as a special issue of African Geographical Review, the journal of the American Association of Geographers' Africa Speciality Group, to mark the transition from MDGs to SDGs.

The Arctic is a region that has seen exponential growth as a space of geopolitical interest over the past decade. This insightful book is the first to analyse the European Union's Arctic policy endeavours of the early 21st Century from a critical geopolitical perspective.

Food sovereignty has been a fundamentally contested concept in global agrarian discourse over the last two decades, as a political project and campaign, an alternative, a social movement, and an analytical framework. It has inspired and mobilized diverse publics: workers, scholars and public intellectuals, farmers and peasant movements, NGOs, and human rights activists in the global North and South. The term 'food sovereignty' has become a challenging subject for social science research, and has been interpreted and reinterpreted in a variety of ways. It is broadly defined as the right of peoples to democratically control or determine the shape of their food system, and to produce sufficient and healthy food in culturally appropriate and ecologically sustainable ways in and near their territory. However, various theoretical issues remain: sovereignty at what scale and for whom? How are sovereignties contested? What is the relationship between food sovereignty and human rights frameworks? What might food sovereignty mean extended to a broader set of social relations in urban contexts? How do the principles of food sovereignty interact with local histories and contexts? This comprehensive volume examines what food sovereignty might mean, how it might be variously construed, and what policies it implies. This book was originally published as a special issue of the journal Globalizations.

The central purpose of all research is to create new knowledge. In the geographical sciences this is driven by a desire to create new knowledge about the relations between space, place, and the an-

thropogenic and non-anthropogenic features and processes of the Earth. But some research goes beyond these modest aims and creates new opportunities for further research, or affects the process of knowledge acquisition more broadly, or changes the way other researchers in a domain think about the world and go about their business. Due to its positive impacts, transformative research can be regarded as inherently having greater value than more conventional research, and funding agencies clearly regard transformative research as something to be encouraged and funded through special programs. Assessments of transformative research funding initiatives are few and provide a mixed picture of their effectiveness. The challenge is whether transformative research can be identified at the time it is proposed rather than after it has been conducted, communicated, and its influence on the discipline has become clear. *Fostering Transformative Research in the Geographical Sciences* reviews how transformative research has emerged in the past, what its early markers were, and makes recommendations for how it can be nurtured in the future.

Economic geographers increasingly consider the significance of history in shaping the contemporary socio-economic landscape, and increasingly believe that experiences and competencies, acquired over time by individuals and entities in particular localities, to a large degree determine present configurations as well as future regional trajectories. Attempts to trace, understand, and investigate the pathways from past to present have given rise to the thriving and exciting sub-field of Evolutionary Economic Geography (EEG). EEG highlights the important factors that initiate, inhibit, or consolidate the contextual settings and relationships in which regions and their respective agents, which comprise and shape economic activity and social reproduction, change over time. It has at its core the production and destruction of novelty in space, and the links between innovation and regional economic fortunes. The creation of knowledge, its movement and recombination within different regional ensembles of economic agents and institutions plays a critical role in the evolution of the space-economy. EEG provides a framework to disentangle the complexity of technological change and regional economic development based on a variety of theoretical and methodological approaches. In only a short time, EEG has established itself as a promising and rapidly evolving research framework with its focus on the driving

forces of regional development across various scales and its attempt to translate findings into public policy. This book advances the theoretical foundations of EEG, and demonstrates how EEG utilises and operationalises conceptual frameworks, both established and new. Contributions also point to future research avenues and extensions of EEG, attempting to build stronger ties between theory, empirical evidence, and relevance to policy. This book was originally published as a special issue of *Regional Studies*.

This volume is intended to provide a comprehensive understanding of recent innovations related to the study of agricultural and environmental management for sustainable development. The book clearly identifies why the fight to achieve sustainable development in agricultural production must be fought along a broad multidisciplinary front to overcome issues such as soil erosion, poor water quality, pesticide contamination, and food insecurity. Readers are given a broad exposition of the trends and current practices of basic principles on sustainable agriculture, along with a detailed understanding of the use of sustainable agriculture to develop environmentally sustainable food production systems. The chapters describe the ecological sustainability of agricultural systems, current innovations to improve efficiency in the use of resources for sustainable agriculture, and the proposal for technological options and new areas of research in this very significant field of agriculture. The authors aim to provide readers with a good subject understanding which will assist in the identification of agricultural development, environmental risk, sustainable resource management and design of appropriate responses. This book will be very helpful for students, researchers and practitioners interested in the fields of agriculture, environment and sustainable development.

Winner of the Planning Institute of Australia's 2015 Cutting Edge Research and Teaching Award! Australians from all walks of life have begun to realise the nation's cities cannot sustain profligate growth indefinitely. Dwindling water supplies, failing food bowls, increased energy costs, more severe bushfires, severe storms, flooding, coastal erosion, rising transport expenses, housing shortages and environmental pollution are now daily news headlines. Australia's cities may have reached their ecological limits: a new model for planning the places we live is needed. Understanding the natural cycles of the city is just as important to planning our ci-

ties as knowledge of local ordinances, indeed much more so. A profound knowledge of environmental processes is critical for successful planning in today's world. Environmental planners take as their guiding principle the concept of designing with nature, approaching cities as living organisms that consume water, energy and raw materials, and produce waste. This metabolic view of cities means we can find new solutions to old problems, and steer our cities towards a more sustainable form of planning. Written specifically for students and professionals working in city planning in Australia, this ground-breaking new book enables Australian planners, architects and developers to get a better understanding of the fundamental principles of environmental planning for cities, showing how land, water, air, energy, wildlife and people shape our built environments, and how in turn environmental processes must be better understood if we are to make informed decisions about developing cities that are more sustainable. The book's coverage is comprehensive: from an overview of the concepts and theories of environmental planning, through analysis of governance systems and urban environmental processes to agendas and policies for the future, all the key topics are covered in depth, with recommendations for supporting reading and an unrivalled selection of additional materials. Ideal for students, essential for professionals, *Australian Environmental Planning* is vital reading for more sustainable cities in a more sustainable world.

A volume in the three-volume *Remote Sensing Handbook* series, *Remote Sensing of Water Resources, Disasters, and Urban Studies* documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are *Remotely Sensed Data Characterization, Classification, and Accuracies*, and *Land Reso*. "Carefully distinguishing between big data and open data, and exploring various data infrastructures, Kitchin vividly illustrates how the data landscape is rapidly changing and calls for a revolution in how we think about data." - Evelyn Ruppert, Goldsmiths, University of London "Deconstructs the hype around the 'data revolution' to carefully guide us through the histories and the futures of 'big data.' The book skilfully engages with debates from across the humanities, social sciences, and sciences in order to produce a critical account of how data are enmeshed into enormous social, economic, and political changes that are taking place." - Mark Graham, University of Oxford Traditionally, data has been a scarce

commodity which, given its value, has been either jealously guarded or expensively traded. In recent years, technological developments and political lobbying have turned this position on its head. Data now flow as a deep and wide torrent, are low in cost and supported by robust infrastructures, and are increasingly open and accessible. A data revolution is underway, one that is already reshaping how knowledge is produced, business conducted, and governance enacted, as well as raising many questions concerning surveillance, privacy, security, profiling, social sorting, and intellectual property rights. In contrast to the hype and hubris of much media and business coverage, *The Data Revolution* provides a synoptic and critical analysis of the emerging data landscape. Accessible in style, the book provides: A synoptic overview of big data, open data and data infrastructures An introduction to thinking conceptually about data, data infrastructures, data analytics and data markets A critical discussion of the technical shortcomings and the social, political and ethical consequences of the data revolution An analysis of the implications of the data revolution to academic, business and government practices

Not only is locative media one of the fastest growing areas in digital technology, but questions of location and location-awareness are increasingly central to our contemporary engagements with online and mobile media, and indeed media and culture generally. This volume is a comprehensive account of the various location-based technologies, services, applications, and cultures, as media, with an aim to identify, inventory, explore, and critique their cultural, economic, political, social, and policy dimensions internationally. In particular, the collection is organized around the perception that the growth of locative media gives rise to a number of crucial questions concerning the areas of culture, economy, and policy.

This book addresses the questions of what went wrong with Detroit and what can be done to reinvent the Motor City. Various answers to the former-deindustrialization, white flight, and a disappearing tax base are now well understood. Less discussed are potential paths forward, stemming from alternative explanations of Detroit's long-term decline and reconsideration of the challenges the city currently faces. Urban crisis-socioeconomic, fiscal, and political-has seemingly narrowed the range of possible interventions. Growth-oriented redevelopment strategies have not reversed Detroit's decline, but in the wake of crisis, officials have in-

creasingly funnelled limited public resources into the city's commercial core via an implicit policy of "urban triage." The crisis has also led to the emergency management of the city by extra-democratic entities. As a disruptive historical event, Detroit's crisis is a moment teeming with political possibilities. The critical rethinking of Detroit's past, present, and future is essential reading for both urban studies scholars and the general public.

Not a day goes by that humans aren't exposed to toxins in our environment—be it at home, in the car, or workplace. But what about those toxic places and items that aren't marked? Why are we warned about some toxic spaces' substances and not others? The essays in *Inevitably Toxic* consider the exposure of bodies in the United States, Canada and Japan to radiation, industrial waste, and pesticides. Research shows that appeals to uncertainty have led to social inaction even when evidence, e.g. the link between carbon emissions and global warming, stares us in the face. In some cases, influential scientists, engineers and doctors have deliberately "manufactured doubt" and uncertainty but as the essays in this collection show, there is often no deliberate deception. We tend to think that if we can't see contamination and experts deem it safe, then we are okay. Yet, having knowledge about the uncertainty behind expert claims can awaken us from a false sense of security and alert us to decisions and practices that may in fact cause harm.

What can political theory teach us about architecture, and what can it learn from paying closer attention to architecture? The essays assembled in this volume begin from a common postulate: that architecture is not merely a backdrop to political life but a political force in its own right. Each in their own way, they aim to give countenance to that claim, and to show how our thinking about politics can be enriched by reflecting on the built environment. The collection advances four lines of inquiry, probing the connection between architecture and political regimes; examining how architecture can be constitutive of the ethical and political realm; uncovering how architecture is enmeshed in logics of governmentality and in the political economy of the city; and asking to what extent we can think of architecture-tributary as it is to the flows of capital-as a partially autonomous social force. Taken together, the essays demonstrate the salience of a range of political theoretical approaches for the analysis of architecture, and show that architecture deserves a place as an object of study in politi-

cal theory, alongside institutions, laws, norms, practices, imaginaries, and discourses.

Debates in Geography Education encourages early career teachers, experienced teachers and teacher educators to engage with and reflect on key issues, concepts and debates. It aims to enable readers to reach their own informed judgements with deeper theoretical knowledge and understanding. The second edition is fully updated in light of the latest research, policy and practice in the field, as well as key changes to the curriculum and examination specifications. Expert contributors provide a range of perspectives on international, historical and policy contexts in order to deepen our understanding of significant debates in geography education. Key debates include: geography's identity as an academic discipline; what constitutes knowledge in geography; places and regional geography; what it means to think geographically; constructing the curriculum; how we link assessment to making progress in geography; the contribution of fieldwork and outdoor experiences; technology and the use of Geographical Information; school geography and employability; understanding the gap between school and university geography; evidence-based practice and research in geography education. The comprehensive, rigorous coverage of these key issues, together with carefully annotated selected further reading, will help support and shape further research and writing. *Debates in Geography Education* is a key resource that is essential reading for all teachers and researchers who wish to extend their grasp of the place of geography in education. Mark Jones is Senior Lecturer in Education at the University of the West of England, Bristol, UK David Lambert is Professor of Geography Education at UCL Institute of Education, London, UK

Infinite Suburbia is the culmination of the MIT Norman B. Leventhal Center for Advanced Urbanism's yearlong study of the future of suburban development. Extensive research, an exhibition, and a conference at MIT's Media Lab, this groundbreaking collection presents fifty-two essays by seventy-four authors from twenty different fields, including, but not limited to, design, architecture, landscape, planning, history, demographics, social justice, familial trends, policy, energy, mobility, health, environment, economics, and applied and future technologies. This exhaustive compilation is richly illustrated with a wealth of photography, aerial drone shots, drawings, plans, diagrams, charts, maps, and archival materials, making it the definitive statement on suburbia at the beginn-

ing of the twenty-first century.