

Modeling and Management in Asian Countries: Unveiling the Transformative Potential of Geographic Information

In an era defined by rapid urbanization, economic growth, and environmental challenges, the nations of Asia stand at a pivotal juncture. Harnessing the transformative power of geographic information (GI) has emerged as a cornerstone for unlocking their vast potential and driving sustainable development. This comprehensive book, "Modeling and Management in Asian Countries: Advances in Geographic Information," provides a wealth of insights, practical strategies, and case studies that empower readers to leverage GI for the betterment of their communities.



Geospatial Technology for Environmental Hazards: Modeling and Management in Asian Countries (Advances in Geographic Information Science)

by Ramachandra Guha

★★★★★ 5 out of 5

Language : English
File size : 138716 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 970 pages



Chapter 1: GI and Urban Development

As cities across Asia continue to expand at an unprecedented pace, GI plays a crucial role in shaping their sustainable growth. This chapter explores cutting-edge techniques for urban planning, transportation network optimization, and infrastructure development using GI. Readers will gain a deep understanding of how GI can facilitate smart city initiatives, improve public services, and enhance the quality of life for urban dwellers.



Chapter 2: GI and Economic Growth

Economic growth is a cornerstone of sustainable development in Asia. This chapter showcases how GI can enhance productivity, foster innovation, and drive economic competitiveness. Readers will learn about the use of GI in supply chain management, logistics planning, and land use optimization. Case studies highlight the transformative impact of GI on industries such as agriculture, tourism, and manufacturing.

The Role of Industry in Asia

Industry as GDP Value Added (\$) & as Share of Total Employment (%)

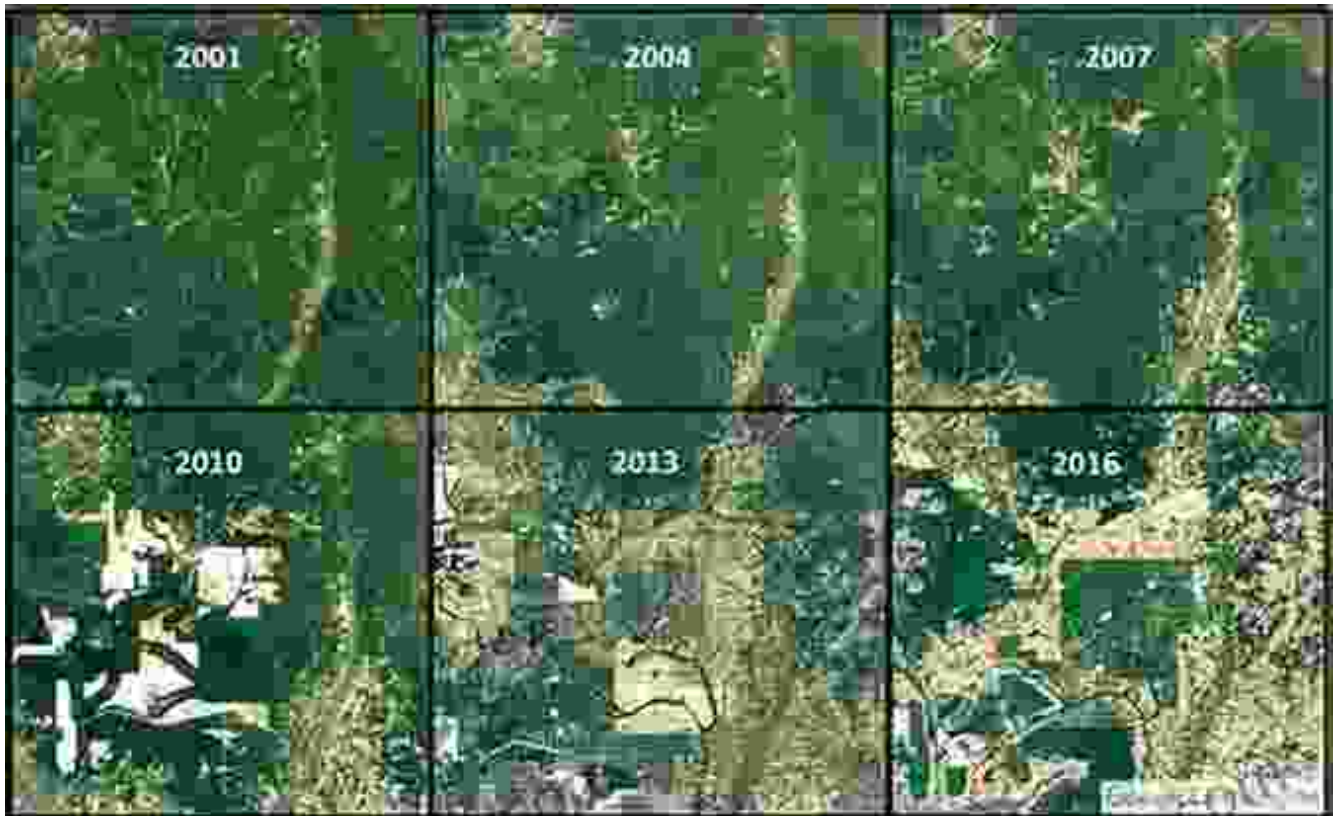


Geographic information can help identify economic opportunities and optimize resource allocation.

Chapter 3: GI and Environmental Management

Preserving the environment is paramount for the long-term prosperity of Asian countries. This chapter explores how GI can contribute to sustainable

environmental management. Readers will delve into the use of GI for natural resource assessment, environmental impact assessment, and land use planning. Case studies demonstrate how GI has been instrumental in combating climate change, protecting biodiversity, and managing water resources.



Chapter 4: GI and Disaster Management

Natural disasters pose significant challenges to Asian countries. This chapter focuses on the vital role of GI in disaster preparedness, response, and recovery. Readers will learn about using GI for hazard mapping, evacuation planning, and damage assessment. Case studies highlight how GI has been leveraged to enhance disaster resilience and protect communities from the impacts of earthquakes, floods, and tsunamis.



Geographic information can provide critical information for disaster response and recovery efforts.

Chapter 5: GI and Health Care

Improving healthcare outcomes is essential for the well-being of Asian populations. This chapter explores how GI can transform healthcare delivery and improve public health. Readers will gain insights into the use of GI for disease surveillance, health facility planning, and health promotion campaigns. Case studies highlight the successful implementation of GI in combating infectious diseases, reducing maternal mortality, and promoting healthy behaviors.



"Modeling and Management in Asian Countries: Advances in Geographic Information" is an indispensable resource for policymakers, planners, researchers, and students seeking to harness the transformative power of geographic information for sustainable development. This book offers a comprehensive understanding of the latest GI technologies, their applications, and their potential impact on the economic, environmental,

and social well-being of Asian countries. By embracing the insights and strategies presented in this book, readers can empower themselves to shape a brighter future for Asia, where sustainable growth, social equity, and environmental stewardship go hand in hand.

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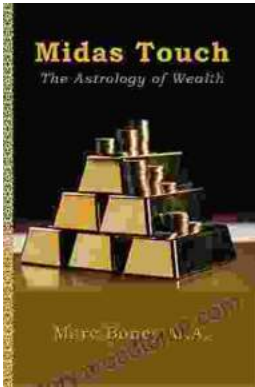
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