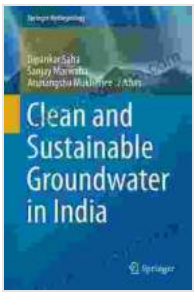
Clean and Sustainable Groundwater in India: A Vital Resource for the Present and Future



Clean and Sustainable Groundwater in India (Springer Hydrogeology) by Seth G. Jones

4.7 out of 5

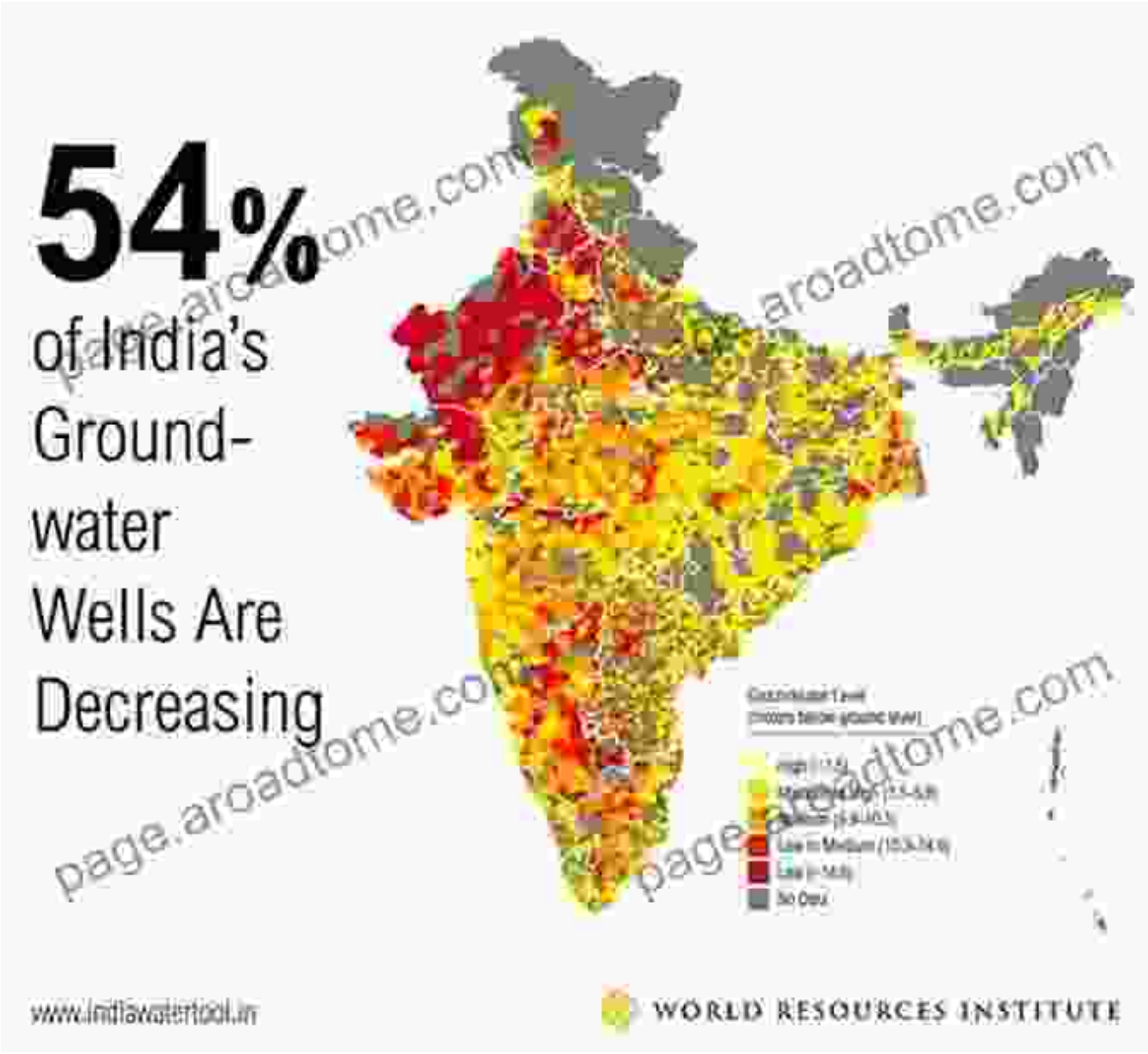
Language	: English
File size	: 21412 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 479 pages
Paperback	: 38 pages

Groundwater is a precious natural resource that plays a pivotal role in India's water security. It accounts for almost 40% of the country's total water supply and is essential for drinking, irrigation, and various industries. However, groundwater resources in India face significant challenges due to population growth, urbanization, industrialization, and climate change. This comprehensive book, "Clean and Sustainable Groundwater in India," sheds light on these challenges and provides invaluable insights into preserving and managing this vital resource.

Groundwater Quality and Contamination

The book delves into the current state of groundwater quality in India, highlighting the prevalence of contamination from various sources. It examines the contamination caused by agricultural practices, industrial effluents, and domestic wastewater. The authors present a detailed

analysis of the health risks associated with contaminated groundwater and discuss the regulations and policies in place to address these concerns.



Sustainable Groundwater Management

Recognizing the urgent need for sustainable groundwater management, the book offers a comprehensive overview of best practices and innovative approaches. It explores rainwater harvesting techniques, groundwater recharge strategies, and the use of smart technologies for monitoring and

managing groundwater resources. The authors emphasize the importance of community participation, stakeholder engagement, and capacity building for successful implementation of sustainable groundwater management plans.

Groundwater in Agriculture

Agriculture is the largest consumer of groundwater in India, and the book dedicates a significant section to addressing groundwater-related issues in this sector. It discusses the impact of intensive irrigation practices on groundwater depletion and the need for efficient water management techniques. The authors explore sustainable farming methods, such as drip irrigation and precision agriculture, which can reduce water consumption and minimize groundwater pollution.

Groundwater Governance and Policy

The book emphasizes the importance of effective governance and policy frameworks for sustainable groundwater management. It examines the existing legal and institutional frameworks for groundwater regulation and highlights the need for strengthening these mechanisms. The authors advocate for collaborative approaches involving multiple stakeholders, including government agencies, water utilities, and local communities, to

ensure the equitable distribution and sustainable use of groundwater resources.

Case Studies and Success Stories

The book incorporates real-world case studies and success stories to showcase the practical implementation of groundwater management strategies. These case studies provide valuable lessons learned and demonstrate the effectiveness of community-led initiatives, innovative

technologies, and policy interventions in addressing groundwater challenges. They inspire readers to replicate these successes and contribute to the broader goal of clean and sustainable groundwater in India.

"Clean and Sustainable Groundwater in India" is a comprehensive and timely resource for anyone concerned about the future of India's water security. The book provides a thorough understanding of the challenges facing groundwater resources and offers practical solutions for sustainable management. It is a valuable tool for policymakers, water resource professionals, academics, and anyone interested in safeguarding this precious resource for present and future generations.

About the Book

"Clean and Sustainable Groundwater in India" is published by Springer Nature and is part of the Springer Hydrogeology series. It is authored by a team of leading experts in groundwater science, water policy, and environmental management. The book is available in both print and electronic formats.

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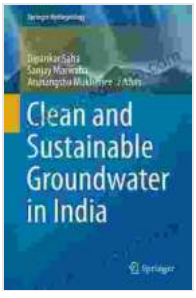

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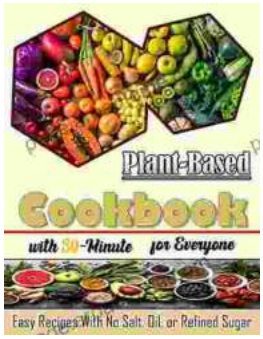

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