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	Autore	SCHMIDT, Robert F.
	Titolo	Fondamenti di neurofisiologia / a cura di Robert F. Schmidt
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2.	Record Nr.	UNINA9910872198403321
	Autore	Yadav Akhilesh Kumar
	Titolo	Integrated Management of Water Resources in India: A Computational Approach : Optimizing for Sustainability and Planning // edited by Akhilesh Kumar Yadav, Kanchan Yadav, Vijay P. Singh
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	Altri autori (Persone)	YadavKanchan SinghV. P (Vijay P.)
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	Soggetti	Water Hydrology Environmental management Human geography Pollution Mathematics - Data processing Environmental Management Human Geography Computational Mathematics and Numerical Analysis

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Nota di contenuto	<p>Chapter 1. Water resources in India: Challenges and opportunities -- Chapter 2. Enhancing agricultural productivity through efficient water use in irrigation -- Chapter 3. Integrated water management frameworks and approaches -- Chapter 4. Data collection and analysis in water resources management -- Chapter 5. Hydrological modeling and simulation for water resource assessment -- Chapter 6. Optimization techniques for water allocation and planning -- Chapter 7. Water quality assessment and management -- Chapter 8. Water-energy-food nexus: Synergies and trade-offs -- Chapter 9. Stakeholder engagement in water resources management -- Chapter 10. Computational models for water resources assessment -- Chapter 11. Decision support systems for integrated management -- Chapter 12. Balancing Rights and Responsibilities for water law -- Chapter 13. Technology advancements in water management -- Chapter 14. Exploring water's role in energygeneration for power in future -- Chapter 15. Climate change impacts and adaptation strategies in water management -- Chapter 16. Challenges and opportunities in integrated water resources management -- Chapter 17. Future directions and innovations in computational water management -- Chapter 18. Strategies and challenges for effective water management in governing water -- Chapter 19. Policy and governance for sustainable water resources -- Chapter 20. Understanding.</p>
Sommario/riassunto	<p>This book tackles the complexities of water management in India. Using computational tools, it provides comprehensive information on water availability, demand, climate change, integrated management, and governance. A must-read for researchers, policymakers, and water managers. The book is structured to provide a holistic understanding of water resources in India and the need for an integrated approach to their management. It explores various aspects of water management, including data collection and analysis, water allocation and planning, water quality management, and the intricate interdependencies within the water-energy-food nexus. One of the key focuses of this book is the application of computational approaches in the management of water resources. We explore the use of advanced modeling, simulation, and optimization techniques to facilitate decision making, assess water availability, and predict future scenarios. By employing computational tools, our goal is to bridge the gap between theoretical concepts and practical implementation, empowering water managers, policymakers, researchers, and other stakeholders to make informed and effective decisions. Throughout the book, we present case studies highlighting the application of computational approaches in diverse water management scenarios in India. These case studies offer valuable information on real-world challenges and demonstrate the potential of computational techniques to address complex water resources problems. We also explore the importance of stakeholder engagement, participatory approaches, and collaborative governance models, recognizing the importance of inclusive decision-making processes and local knowledge in achieving sustainable water management. The book is expected to serve as a valuable resource for students, researchers, professionals, and policymakers involved in water resource management in India. We aim to contribute to the ongoing efforts to</p>

ensure the availability of clean and adequate water resources for
present and future generations.
