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| Titolo                  | Water, climate change, and sustainability / / edited by Vishnu Prasad Pandey, Sangam Shrestha, David Wiberg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Nota di contenuto       | Localizing and mainstreaming global initiatives on water, climate change, and sustainability / Vishnu Prasad Pandey, Binaya Raj Shivakoti, Sangam Shrestha and David Wiberg -- A river basin approach for the coordinated implementation of water-related targets in the Sustainable Development Goals (SDGs) / Binaya Raj Shivakoti -- Water-energy nexus in bio-based systems / Seyed Hashem Mousavi-Avval, Asmita Khanal, Juliana Vasco-Correa, Luis Huezo and Ajay Shah -- Safe-sanitation adaptive-integrated management system (SAIMS) : a conceptual process tool for incorporating resilience / Peter Emmanuel Cookey and Mayowa Abiodun Peter-Cookey -- Approaches and tools to assess water-climate change-sustainability nexus : a systematic review / Olusola O. Ololade, Enoch Bessah and Marinda Avenant -- Rejuvenation of springs in the Himalayan Region / Himanshu Kulkarni, Jayesh Desai and Mohammad Imran Siddique-- Enhancing water productivity through on-farm water management / Mohammad Faiz Alam, Vidya Mandave, Alok Sikka and Navneet Sharma -- Climate actions and challenges for sustainable ecosystem services : approaches and application in California case studies / Qinqin Liu -- Monitoring |

and accountability frameworks for SDGs : the role of civil society organizations / Catarina Fonseca and Laura van de Lande -- Research to policy and practice : challenges and opportunities / Ashim Das Gupta -- Resilient water infrastructure for poverty reduction : cases from Asia and Middle East / Victor R. Shinde and Lovlesh Sharma -- High efficiency irrigation technology as a single solution for multi-challenge : a case of Pakistan / Hafiz Qaisar Yasin, Malik Muhammad Akram and Muhammad Naveed Tahir-- Irrigation scheduling and management for improved water productivity / Birendra K.C., Henry Wai Chau, Magdy Mohssen, Keith Cameron, Ian McIndoe, Helen Rutter, Channa Rajanayaka, Patricia Anthony, Bart Schultz and Krishna Prasad -- Urban water security for sustainable cities in the context of climate change / Soni M. Pradhanang and Khurshid Jahan -- Approach towards building climate-resilient irrigation systems for food security in Nepal / Ram Chandra Khanal and Prachanda Pradhan -- A stakeholder-centric tool for implementing water management strategies and enhancing water cooperation (SDG 6.5) in the Lower Mekong Region / Manish Shrestha, Karthikeyan Matheswaran, Orn-Uma Polapanich, Thanapon Piman and Chayanis Krittasudthacheewa.

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### Sommario/riassunto

"Sustainable use and management of water resources, considering energy and food dimensions, in the context of climate change is a challenging endeavour worldwide. Achieving many of the environmental sustainable development goals (SDGs) depends on the efficient use of the water resources. It's therefore imperative to rely on the best modern scientific and practical achievements in the field of hydrogeosciences and associated approaches and methods. Water, Climate Change, and Sustainability provides key concepts in hydrogeosciences, introduces relevant field and modelling techniques to demonstrate their applications in water-sector with specific case studies, and discerns future directions of research and practical application related to the expected patterns of climate changes in different regions of the world. Volume highlights include: - Key concepts of practical applications of theory and methods of hydrogeosciences for sustainable development of water resources - Diverse approaches and methods for analyzing water resources and associated risks, pollution levels, vulnerability, and security - Practical applications of water resources in procuring food security, good health, clean energy and climate action Water, Climate Change, and Sustainability is a valuable resource for professionals, researchers, and graduate students from a wide variety of fields including hydrogeology, climate change, geophysics, geochemistry, geography, geohealth, and environmental science"--

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