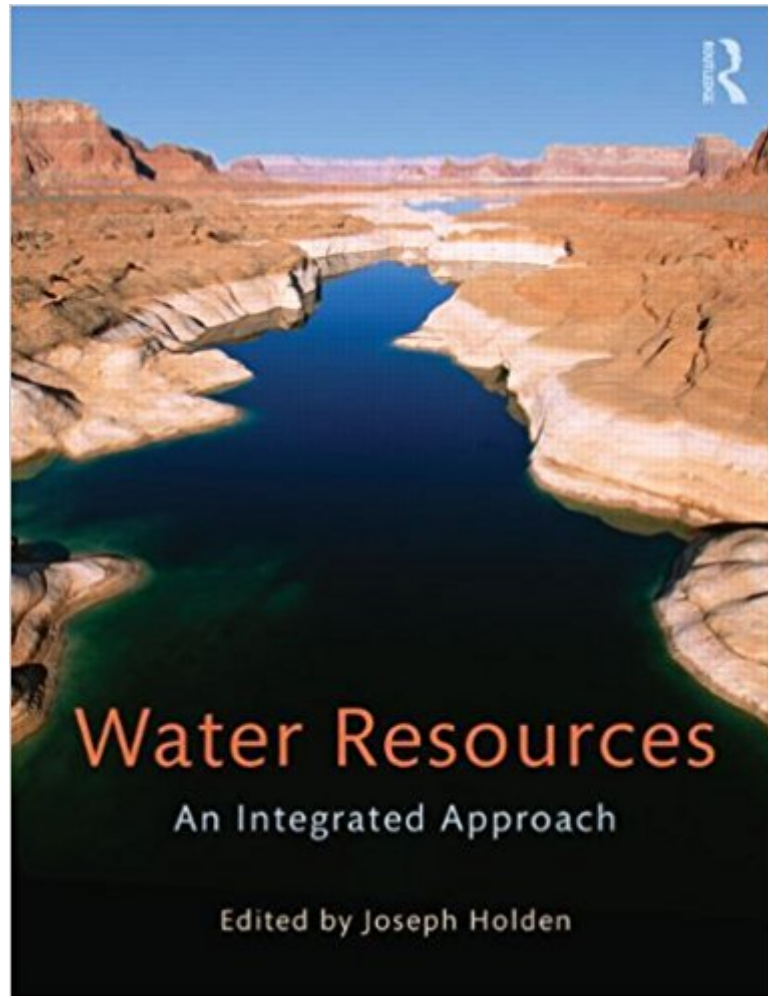




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Water Resources: An Integrated Approach



Synopsis

The world faces huge challenges for water as population continues to grow, as emerging economies develop and as climate change alters the global and local water cycle. There are major questions to be answered about how we supply water in a sustainable and safe manner to fulfil our needs, while at the same time protecting vulnerable ecosystems from disaster. *Water Resources: An Integrated Approach* provides students with a comprehensive overview of both natural and socio-economic processes associated with water. The book contains chapters written by 20 specialist contributors, providing expert depth of coverage to topics. The text guides the reader through the topic of water starting with its unique properties and moving through environmental processes and human impacts upon them including the changing water cycle, water movement in river basins, water quality, groundwater and aquatic ecosystems. The book then covers management strategies for water resources, water treatment and re-use, and the role of water in human health before covering water economics and water conflict. The text concludes with a chapter that examines new concepts such as virtual water that help us understand current and future water resource use and availability across interconnected local and global scales. This book provides a novel interdisciplinary approach to water in a changing world, from an environmental change perspective and inter-related social, political and economic dimensions. It includes global examples from both the developing and developed world. Each chapter is supplemented with boxed case studies, end of chapter questions, and further reading, as well as a glossary of terms. The text is richly illustrated throughout with over 150 full colour diagrams and photos.

Book Information

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"This is an ideal textbook for students of environmental and earth sciences, environmental policy and management, geography and related subject areas. It will also be of interest internationally to practitioners in the field. The expert contributors from a diversity of academic backgrounds have produced a comprehensive reference work on an environmental topic of global concern." Dr Jane M. Reed, Department of Geography, Environment and Earth Sciences, University of Hull, UK. "This work is an excellent reference for students and anyone interested in understanding water resources. The text is well organized and includes an interesting blend of background information, practical examples, and case studies. The challenges facing water managers in the future will require a multidisciplinary approach and this book successfully explains some of the most important concepts." Dr George F. Czapar, Director, Center for Watershed Science, Illinois State Water Survey - Prairie Research Institute, University of Illinois, USA. "The strong mix of chemistry, hydrology, and environmental engineering topics provides a comprehensive perspective on water resources (i.e., a coherent discussion despite the broad base)." D. A. Vaccari, Stevens Institute of Technology, USA

Professor Joseph Holden holds the Chair of Physical Geography at the University of Leeds. He is Head of water@leeds, the largest interdisciplinary water research centre in the UK and he is also Director of Research for the School of Geography.

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