

Water Security for Ecosystems

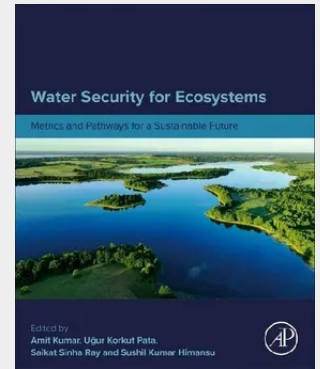
Metrics and Pathways for a Sustainable Future

Water Security for Ecosystems: Metrics and Pathways for a Sustainable Future explores the mechanisms to support sustainable management of aquatic resources during rising global water demand, global change, and population growth. By identifying resource consumption indicators such as fishing load capacity and virtual water trade, it sets a clear framework for assessing the ecological footprint of extractive industries. It then proposes pathways to establish largescale water security via integrated aquatic resource management, water-efficient technologies, and sustainable policy intervention.

Throughout, the book acknowledges the increased strain placed on global aquatic ecosystems due to unsustainable water use, extractive fisheries, agricultural practices, and more. Written by a renowned team of water resource managers, early chapters in this book define ecological footprints and explore the global policies, industries, and climate forces driving water insecurity. Central chapters explore novel and innovative water conservation techniques, advances in water resource management, and emerging technologies for sustainable water use. Final chapters explore global water policies and the role of international cooperation and propose a roadmap for minimizing aquatic ecological footprints.

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