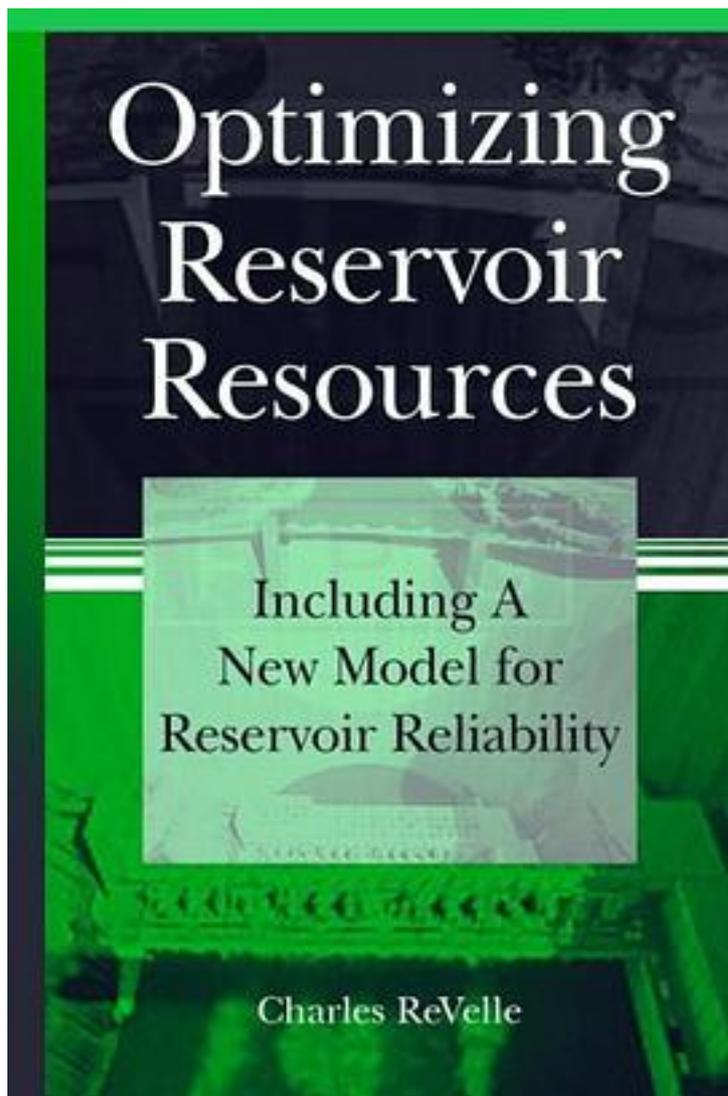


# Optimizing Reservoir Resources



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Introducing the next generation in optimization modeling.

This book presents a dynamic new approach to optimization modeling in the design and management of surface water reservoirs. More accurate in its representation of critical flows than traditional synthetic hydrology approaches, ReVelle's model utilizes both deterministic and stochastic constraints to derive a unified water supply, allocation, and reallocation optimization model.

Dr. ReVelle begins with an in-depth presentation of conventional approaches to optimizing various reservoir functions and services-including water supply, flood control, hydropower, irrigation, navigation, and recreation. He then describes a method to enhance performance by allocating services and functions. Finally, he develops a unified optimization model that can be applied both to existing reservoirs and in the design of a new generation of efficient surface water reservoirs.

A valuable working resource for water resources analysts, engineers, and managers, *Optimizing Reservoir Resources* features:

- \* A new model to achieve desired levels of water supply reliability.
- \* A multiobjective framework for exploring reservoir services.
- \* Storage rule curves derived with anti-zigzagging methods.
- \* Improved cost allocation models.
- \* Original techniques for linearizing the nonlinear hydropower equation and for the derivation of the storage-energy curve.
- \* Techniques for allocation and reallocation of reservoir services through the derivation of an economic supply curve.

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