



Optimal Management of Flow in Groundwater Systems: An Introduction to Combining Simulation Models and Optimization Methods

David P. Ahlfeld, Ann E. Mulligan

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In the decades ahead population increases are expected to place increased stress on water resources. A substantial portion of the world's fresh water is derived from groundwater. **Optimal Hydraulic Control of Groundwater Systems** will provide a practical guide for implementing mathematical and computer-based tools to aid in the management of groundwater. Drawn from the operations research literature, this book combines methods for optimization techniques to numerical models for the simulation of groundwater flow. The resulting management model provides a valuable tool for optimizing performance of groundwater systems. This volume will fill a significant gap in the technical literature on groundwater modeling and management.

- * Provides a thorough description of the mathematics underlying the method and a step-by-step introduction to practical application
- * Introduces key concepts using an example continued throughout the book
- * Contains MODOFC software package and associated documentation that implements many of the methods described in the book
- * Details advanced topics, including nonlinear and integer problem elements and interpretation of management model results
- * Each chapter ends with a summary of selected references and brief histories of the methodologies presented in the book

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