



Handbook of Hydrology (Mechanical Engineering)

By David Maidment

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Introducing Hydrology's New Benchmark Reference Here's the first book in nearly 30 years to provide comprehensive coverage of the current state of hydrologic knowledge and practice--saving you hours of time tracking down the latest techniques in professional journals. Maidment's Handbook of Hydrology includes the contributions of more than 50 international authorities, who provide you with practical methods of solving problems in every aspect of the field, including the increasing application of geostatistics and computer models. You'll discover more effective ways to . . .mitigate the impact of floods through better urban drainage; assess the water supplies of cities and farming areas; prevent the pollution of natural waters; halt the damaging effects of erosion; protect wilddlife and preserve wetlands; contain and remove contaminants in waterways; and much more.

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Editorial Review

Review

An expert and highly practical reference on both the theory and practice involved, the Handbook of Hydrology is a much needed compendium of essential information and data filling a void in the literature for practicing hydrologists and professionals in related fields."

From the Inside Flap

Written by more than 50 experts from around the world, this compendium of hydrologic theory and practice is a welcome and long overdue essential reference for all practicing hydrologists and related professionals. Packed with valuable information and expert guidance, the Handbook offers solutions to your most perplexing on-the-job problems. For example, you'll learn how to:

- * Estimate the magnitudes of floods and mitigate their effects
- * Develop solutions for cleaning up and preventing pollution of surface water and groundwater
- * Assess water usage for a city or an irrigation project
- * Choose reliable methods for urban drainage design
- * Calculate the rate of rainfall, evaporation, infiltration, groundwater flow, snow-melt, and streamflow
- * Determine the rate of movement of contaminants in surface water and groundwater
- * Assess the hydrologic effects of land-use changes such as deforestation
- * Statistically analyze hydrologic data, including extreme events, time series, and spatial data
- * Select the best computer package for hydrologic simulation
- * Use remote sensing, automated data collection, forecasting, and advanced computer methods in hydrology

Now when you need to understand an unfamiliar term or a new subject area, obtain a formula, find a computer program for solving a problem, obtain values from a map or a table of data, or convert hydrologic units, this is the only source you'll need. A must-have reference for anyone involved in hydrology, environmental pollution, urban drainage, water resources planning and management, and related fields, the Handbook of Hydrology will prove to be indispensable to your work.

From the Back Cover

Written by more than 50 experts from around the world, this compendium of hydrologic theory and practice is a welcome and long overdue essential reference for all practicing hydrologists and related professionals. Packed with valuable information and expert guidance, the *Handbook* offers solutions to your most perplexing on-the-job problems. For example, you'll learn how to:

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Users Review

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