



Entropy Theory in Hydrologic Science and Engineering

Vijay Singh

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A THOROUGH INTRODUCTION TO ENTROPY THEORY AND ITS APPLICATIONS IN HYDROLOGIC SCIENCE AND ENGINEERING

This comprehensive volume addresses basic concepts of entropy theory from a hydrologic engineering perspective. The application of these concepts to a wide range of hydrologic engineering problems is discussed in detail. The book is divided into sections--preliminaries, rainfall and evapotranspiration, subsurface flow, surface flow, and environmental considerations. Helpful equations, solutions, tables, and diagrams are included throughout this practical resource.

***Entropy Theory in Hydrologic Science and Engineering* covers:**

- Introduction to entropy theory
- Maximum entropy production principle
- Performance measures
- Morphological analysis
- Evaluation and design of sampling and measurement networks
- Precipitation variability
- Rainfall frequency distributions
- Evaluation of precipitation forecasting schemes
- Assessment of potential water resources availability
- Evaporation
- Infiltration
- Soil moisture
- Groundwater flow
- Rainfall-runoff modeling
- Streamflow simulation
- Hydrologic frequency analysis
- Streamflow forecasting
- River flow regime classification
- Sediment yield
- Eco-index

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