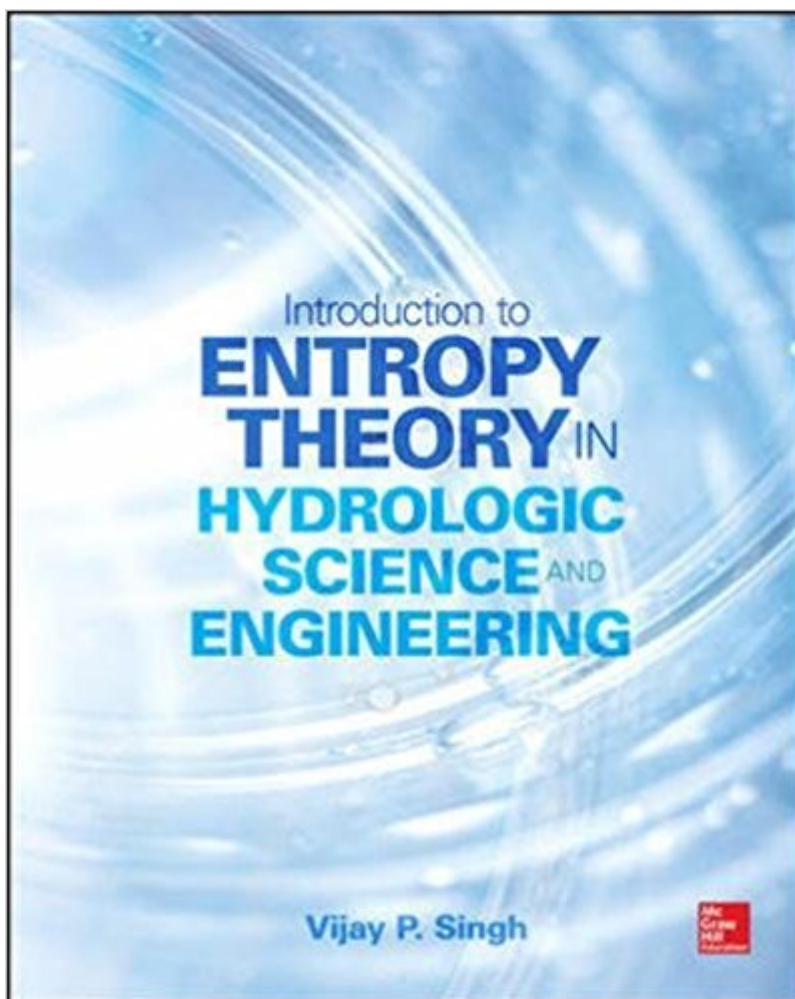




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Entropy Theory In Hydrologic Science And Engineering



Synopsis

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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Vijay Singh, Ph.D., D.Sc., D. Eng. (Hon.), Ph.D. (Hon.), P.E., P.H., Hon. D. WRE (Bryan, TX) is a Distinguished Professor in the Department of Biological and Agricultural Engineering at Texas A&M University. He specializes in surface-water hydrology, groundwater hydrology, hydraulics, irrigation engineering, environmental quality and water resources. Dr. Singh has published more than 20

textbooks.

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