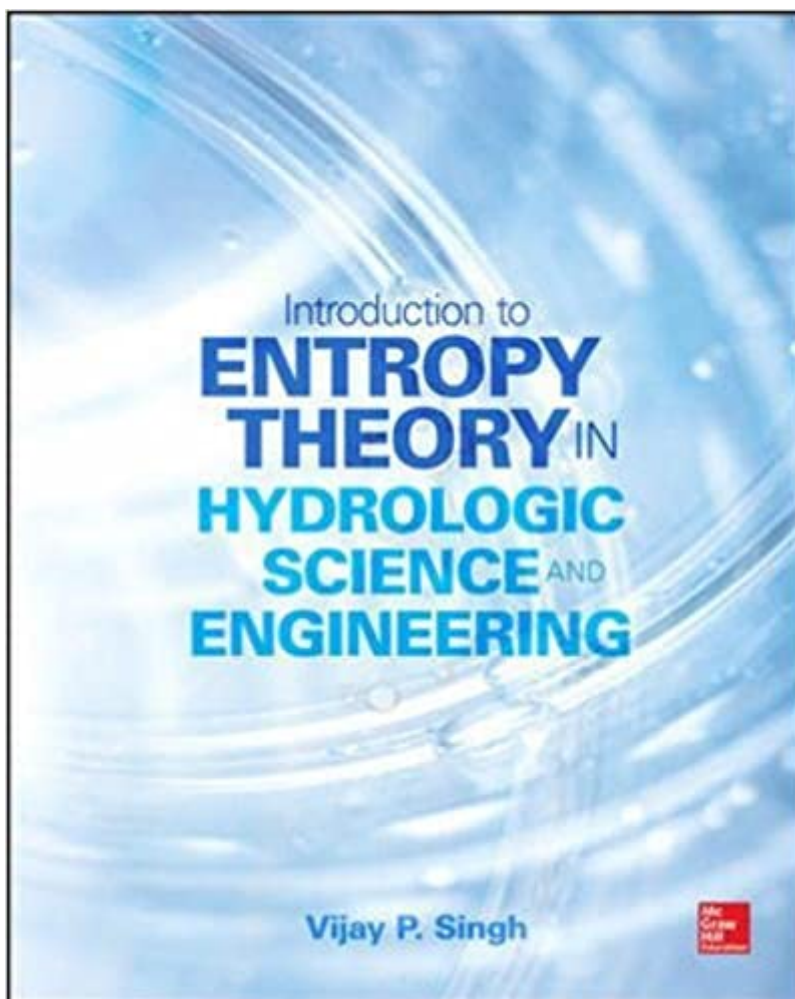




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Entropy Theory In Hydrologic Science And Engineering



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

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