# Using Meteorology Probability Forecasts in Operational Hydrology (Paperback)

By Thomas Croley

American Society of Civil Engineers, United States, 2000. Paperback. Condition: New. Language: English . Brand New Book. This is the first book to simplify atmospheric predictions enabling laypersons to make their own derivative forecasts. Scientists and engineers can learn to predict weather-dependent phenomena to assess the risks associated with decisions in the construction and operation phases of water resource planning. This self-educating method simultaneously uses probabilistic meteorology forecasts over different time scales, time periods, spatial domains, probability statements, and meteorology variables. This is a practical, hands-on guide with comprehensive and straightforward theory, procedures, and examples for using short-term, seasonal, and interannual forecasts of meteorology probabilities, available from the National Oceanic and Atmospheric Administration, Environment Canada, and other agencies. The examples use different hydrology models; employ both user-defined and agency-produced meteorology probability forecasts in the United States and Canada; illustrate El Nino and La Nina conditional probabilities and examples of their derivation; and provide sufficient information for the reader s own applications. An extensive appendix describes the acquisition, installation, and use of freely available software to prepare historical files for individualized applications, to input forecast meteorology probabilities of a specific site, to extract reference quantile estimates, to prioritize forecasts, and to...

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