Chaos in Hydrology

Bridging Determinism and Stochasticity

- Offers a new, simplified approach to hydrologic complexity, presenting the topic logically and accessibly
- Comprehensive, systematic, articulate and lively
- Written by authoritative practitioner in the field
- Includes end-of-chapter summaries

This authoritative book presents a comprehensive account of the essential roles of nonlinear dynamic and chaos theories in understanding, modeling, and forecasting hydrologic systems. This is done through a systematic presentation of: (1) information on the salient characteristics of hydrologic systems and on the existing theories for their modeling; (2) the fundamentals of nonlinear dynamic and chaos theories, methods for chaos identification and prediction, and associated issues; (3) a review of the applications of chaos theory in hydrology; and (4) the scope and potential directions for the future. This book bridges the divide between the deterministic and the stochastic schools in hydrology, and is well suited as a textbook for hydrology courses.

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