

Radar Hydrology: Principles, Models, and Applications

Yang Hong, Jonathan J. Gourley



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Radar Hydrology: Principles, Models, and Applications provides graduate students, operational forecasters, and researchers with a theoretical framework and practical knowledge of radar precipitation estimation. The only text on the market solely devoted to radar hydrology, this comprehensive reference:

- Begins with a brief introduction to radar
- Focuses on the processing of radar data to arrive at accurate estimates of rainfall
- Addresses advanced radar sensing principles and applications
- Covers radar technologies for observing each component of the hydrologic cycle
- Examines state-of-the-art hydrologic models and their inputs, parameters, state variables, calibration procedures, and outputs
- Discusses contemporary approaches in data assimilation
- Concludes with methods, case studies, and prediction system design
- Includes downloadable MATLAB® content

Flooding is the #1 weather-related natural disaster worldwide. **Radar Hydrology: Principles, Models, and Applications** aids in understanding the physical systems and detection tools, as well as designing prediction systems.

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