



Rainfall: State of the Science (Geophysical Monograph Series)

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Rainfall: State of the Science offers the most up-to-date knowledge on the fundamental and practical aspects of rainfall. Each chapter, self-contained and written by prominent scientists in their respective fields, provides three forms of information: fundamental principles, detailed overview of current knowledge and description of existing methods, and emerging techniques and future research directions.

The book discusses

- Rainfall microphysics: raindrop morphodynamics, interactions, size distribution, and evolution
- Rainfall measurement and estimation: ground-based direct measurement (disdrometer and rain gauge), weather radar rainfall estimation, polarimetric radar rainfall estimation, and satellite rainfall estimation
- Statistical analyses: intensity-duration-frequency curves, frequency analysis of extreme events, spatial analyses, simulation and disaggregation, ensemble approach for radar rainfall uncertainty, and uncertainty analysis of satellite rainfall products

The book is tailored to be an indispensable reference for researchers, practitioners, and graduate students who study any aspect of rainfall or utilize rainfall information in various science and engineering disciplines.

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Rainfall: State of the Science (Geophysical Monograph Series) From Brand: American Geophysical Union Bibliography

- Rank: #1770569 in Books
- Brand: Brand: American Geophysical Union
- Published on: 2010-01-11
- Original language: English
- Dimensions: 10.70" h x .80" w x 8.50" l, .0 pounds
- Binding: Hardcover
- 287 pages

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