



Ground-Based Microwave Radiometry and Remote Sensing: Methods and Applications

Pranab Kumar Karmakar

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The ability to effectively monitor the atmosphere on a continuous basis requires remote sensing in microwave. Written for physicists and engineers working in the area of microwave sensing of the atmosphere, **Ground-Based Microwave Radiometry and Remote Sensing: Methods and Applications** is completely devoted to ground-based remote sensing. This text covers the fundamentals of microwave remote sensing, and examines microwave radiometric measurements and their applications.

The book discusses the atmospheric influences on the electromagnetic spectrum, addresses the measurement of incoherent electromagnetic radiation from an object obeying the laws of radiation fundamentals, and explores the height limits in both the water vapor band and the oxygen band. The author describes the measurement technique of water vapor in the polar region, details studies of the measurement of integrated water vapor content by deploying a microwave radiometer, and presents several real-time pictures of radiometric and disdrometer measurements.

- Includes integrated water vapor and cloud liquid water models
- Contains measurements in adverse weather conditions
- Illustrates measurement technique in the Antarctic and Arctic regions
- Describes rain models in different locations including tropical, temperate regions along with radiometric measurement techniques
- Presents a definite model for measurement of propagation path delay

The book summarizes the latest research results obtained in the area of measurements and modeling, describes the atmospheric influences on electromagnetic spectrum along with different gaseous and cloud models, and provides examples of radiometric retrievals from a variety of dynamic weather phenomena.

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