

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

By 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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Review

"Certainly, the information content as well as the presentation of the book makes me interested to have it on my shelf. … The author has provided the necessary background for general readership as well as recent trends to arouse interest in the mind of students of electronics and communication engineering, in general, and microwave engineering, in particular. In addition, the book is going to be an important source of inspiration to researchers in the area of microwave sensing and measurement."
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"Written for physicists and engineers working in the area of microwave sensing of the atmosphere, this book is completely devoted to ground-based remote sensing. The text covers the fundamentals of microwave remote sensing, and examines microwave radiometric measurements and their applications."
—*IEEE Microwave Magazine*, June 2014

About the Author

Pranab Kumar Karmakar is currently pursuing research work principally in the area of modeling of integrated water vapor and liquid water in the ambient atmosphere. He is involved in research and teaching at the post-graduate level at the Institute of Radiophysics and Electronics, University of Calcutta in India. Dr. Karmakar published noteworthy outcomes of his research of tropical locations in different international and national journals of repute. All these are culminated into a book entitled **Microwave Propagation and Remote Sensing: Atmospheric Influences with Models and Applications** published by CRC Press in 2012.

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