

Airborne Measurements for Environmental Research

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Reviews

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AIRBORNE MEASUREMENTS FOR ENVIRONMENTAL RESEARCH



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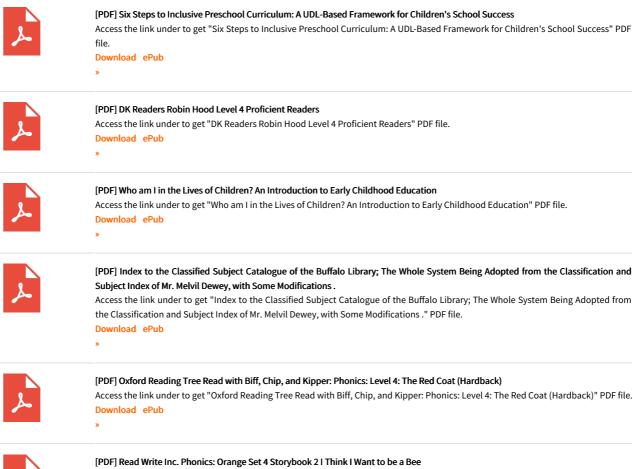
Condition: New. Publisher/Verlag: Wiley-VCH | Methods and Instruments | This first comprehensive review covers all atmospheric components and surface parameters, describing common methods to characterize aerosol particles and cloud/precipitation elements, while explaining radiation quantities and hyperspectral and active remote sensing techniques. | This first comprehensive review of airborne measurement principles covers all atmospheric components and surface parameters. It describes the common techniques to characterize aerosol particles and cloud/precipitation elements, while also explaining radiation quantities and pertinent hyperspectral and active remote sensing measurement techniques along the way. As a result, the major principles of operation are introduced and exemplified using specific instruments, treating both classic and emerging measurement techniques. The two editors head an international community of eminent scientists, all of them accepted and experienced specialists in their field, who help readers to understand specific problems related to airborne research, such as immanent uncertainties and limitations. They also provide guidance on the suitability of instruments to measure certain parameters and to select the correct type of device. While primarily intended for climate, geophysical and atmospheric researchers, its relevance to solar system objects makes this work equally appealing to astronomers studying atmospheres of solar system bodies with telescopes and space probes. | 1 Introduction2 Thermodynamic and Dynamic Parameters2.1 Introduction2.2 Historical2.3 Aircraft State Parameters2.4 Static Air Pressure2.5 Static Air Temperature2.6 Water Vapor Measurements2.7 Three Dimensional Wind Vector2.8 Flux Measurements2.9 Small Scale Turbulence3 In Situ Trace Gas Measurements3.1 Rationale and Historical Perspective3.2 Introduction3.3 Spectroscopic Techniques3.4 Chemical Ionization Mass Spectrometry3.5 Chemical Conversion Techniques3.6 Whole Air Sampling and Chromatographic Techniques4 In Situ Measurements of Aerosol Particles4.1 Physical Characterization of Aerosol Particles4.2 Aerosol Particle Number Concentration4.3 Aerosol Particle Size Distribution4.4 Aerosol Chemistry4.5 Optical Properties of Aerosols4.6 Cloud Condensation and Ice Nuclei4.7 Challenges and Emerging Techniques5 In Situ Measurements of Cloud and Precipitation Particles5.1 Overview5.2 Single Particle Size Distributions and...

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