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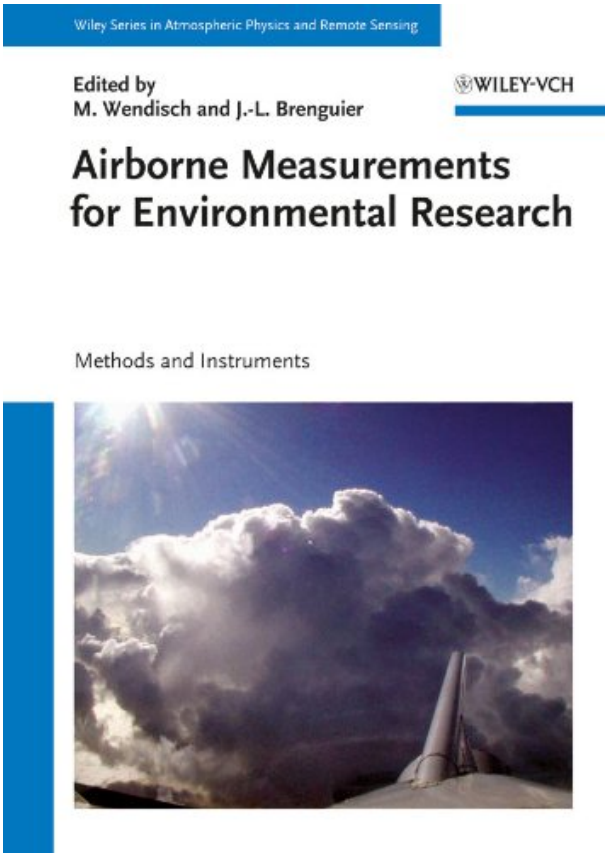

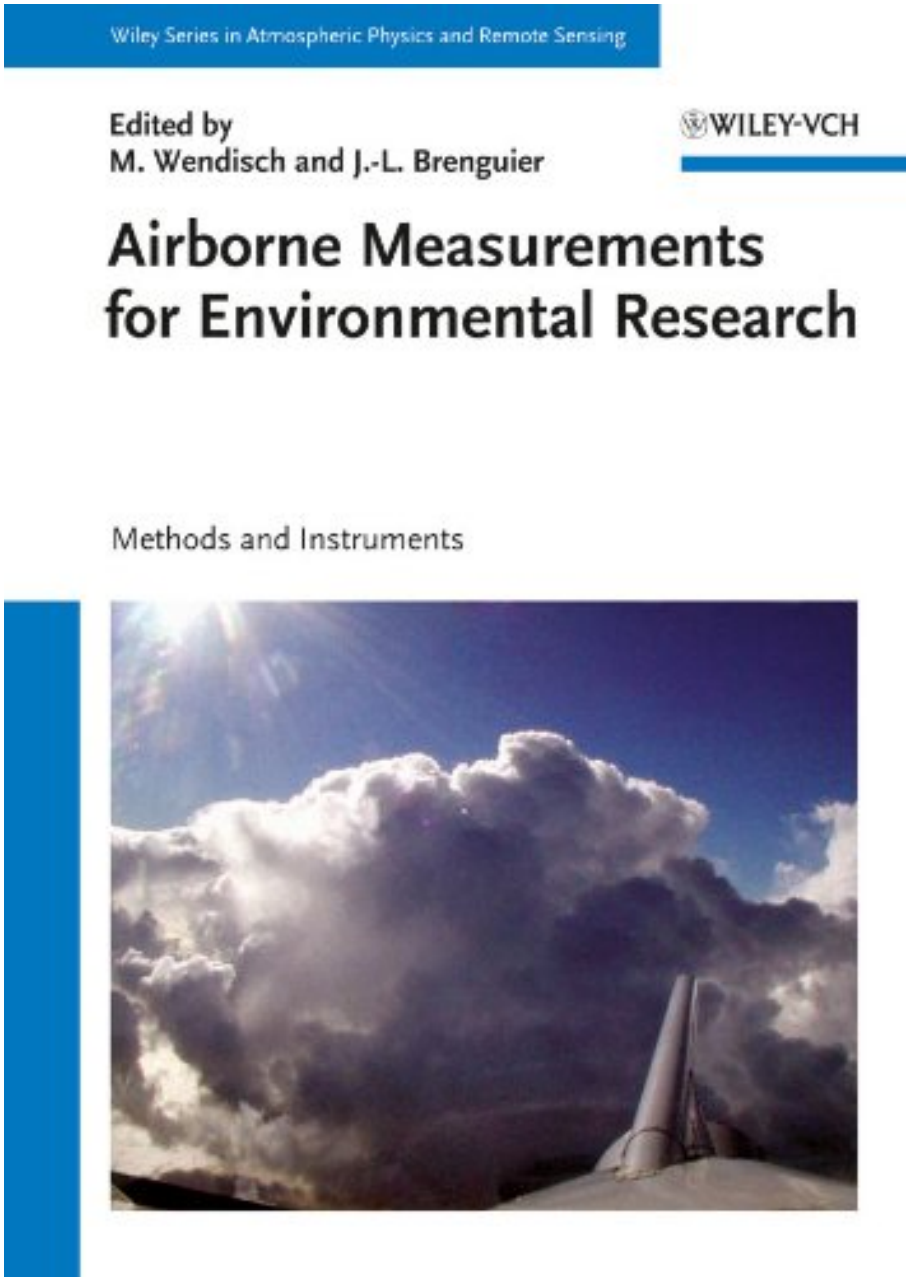

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This handbook provides the first comprehensive review of measurement principles, instruments and processing techniques for airborne observation of the Earth’s atmosphere and surface.

For each field, the major principles of measurement are presented and illustrated with commonly-used airborne instruments, to assess the present capabilities in terms of accuracy, to raise awareness of specific issues with the interpretation of measurements from airborne operations, and to review emerging measurement techniques.

The authors are internationally-recognized experts in their field, who actively contribute to the design and development of modern airborne instrumentation and processing techniques.

While primarily intended for climate, geophysical and atmospheric researchers, its relevance to the solar system makes this work useful to astronomers studying planetary atmospheres with telescopes and space probes.

About the Author

Manfred Wendisch is a full professor and director of the Institute of Meteorology at the University of Leipzig, Germany, and holds a permanent guest professor appointment at the Chinese Academy of Sciences in Beijing. His teaching expertise includes the fields of atmospheric radiative transfer, cloud physics, atmospheric dynamics, and synoptic meteorology, and he is actively involved in numerous research projects

focusing on airborne measurements and impacts of atmospheric clouds and their radiative properties.

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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.

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