

Quantifying the Environment

Measurement Methods in Atmospheric Sciences

In situ and remote

Stefan Emeis



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Measurement Methods in Atmospheric Sciences Stefan Emeis, 2010 *Measurement Methods in Atmospheric Sciences* provides a comprehensive overview of in situ and remote sensing measurement techniques for probing the Earth's atmosphere. The methods presented in this book span the entire range from classical meteorology via atmospheric chemistry and micrometeorological flux determination to Earth observation from space. Standard instruments for meteorological and air quality monitoring methods as well as specialized instrumentation predominantly used in scientific experiments are covered. The presented techniques run from simple mechanical sensors to highly sophisticated electronic devices. Special emphasis is on the rapidly evolving field of remote sensing techniques. Here active ground-based remote sensing techniques such as SODAR and LIDAR find a detailed coverage. The book conveys the basic principles of the various observational and monitoring methods enabling the user to identify the most appropriate method. An introductory chapter covers general principles e.g. inversion of measured data, available platforms, statistical properties of data, data acquisition. Later chapters each treat methods for measuring a specific property e.g. humidity, wind speed, wind direction. Long chapters provide an introductory tabular list of the methods treated. More than 100 figures and 400 references, mostly to the recent scientific literature, aid the reader in reading up on the details of the various methods at hand. Recommendations at the end of each major chapter provide additional hints on the use of some instruments in order to facilitate the selection of the proper instrument for a successful measurement. A large number of national and international standards providing precise guidelines for measuring and acquiring reliable, reproducible and comparable data sets are listed in the appendix. A dedicated index allows easy access to this valuable information. The book addresses undergraduate and graduate students in meteorological and atmospheric sciences, physical geography, ecology, environmental sciences, agriculture and related disciplines as well as scientists in the process of planning atmospheric measurements in field campaigns or working with data already acquired. Practitioners in environmental agencies and similar institutions will benefit from instrument descriptions and the extended lists in the appendix. Publisher: *Analytical Techniques for Atmospheric Measurement* Dwayne Heard, 2008-04-15. Almost all of the breakthroughs in understanding the atmosphere have been initiated by field observations using a range of instrumental techniques. Developing or deploying instruments to make further observations demands a thorough understanding of the chemical and spectroscopic principles on which such measurements depend. Written as an authoritative guide to the techniques of instrumental measurement for the atmospheric scientist, research student or undergraduate, *Analytical Techniques for Atmospheric Measurement* focuses on the instruments used to make real-time measurements of atmospheric gas and aerosol composition. Topics covered include how they work, their strengths and weaknesses for a particular task, the platforms on which they have been deployed and how they are calibrated. It explains the fundamental principles upon which the instrumental techniques are based, i.e. what property of a molecule can be exploited to

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Wendisch,Jean-Louis Brenguier,2013-03-22 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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