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Information on recent progress in laser remote sensor (LIDAR) technology can be found scattered throughout numerous journal articles and conference proceedings, but until now there has been no work that summarizes recent advancements and achievements in the field in a detailed format.

Laser Remote Sensing provides an up-to-date, comprehensive review on LIDAR, focusing mainly on applications to current topics in atmospheric science. The scope of the book includes laser remote sensing of the atmosphere, including measurement of aerosols, water vapor, clouds, winds, trace constituents, and temperature. It also covers other interesting applications such as vegetation monitoring and altimetry. LIDAR systems described in this volume include ground-based (fixed or mobile), airborne, and spaceborne (satellite-based) systems. The book emphasizes instrumentation and measurement techniques to enable the reader to understand what kind of a LIDAR system is necessary for a certain application.

The individual chapters are self-contained and written by authors who are outstanding experts in each field. The book is intended for scientists, researchers, and students who have interest in the atmospheric environment and wish to learn about the measurement capabilities of state-of-the-art LIDAR systems