



# Solutions in LIDAR Profiling of the Atmosphere

*Vladimir A. Kovalev*

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# Solutions in LIDAR Profiling of the Atmosphere

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**Solutions in LIDAR Profiling of the Atmosphere** Vladimir A. Kovalev

**Provides tools and techniques to identify and address distortions and to interpret data coming from Lidar sensing technology**

This book covers the issues encountered in separating the backscatter and transmission terms in the LIDAR equation when profiling the atmosphere with zenith-directed and vertically-scanning Lidars. *Solutions in Lidar Profiling of the Atmosphere* explains how to manage and interpret the Lidar signals when the uncertainties of the involved atmospheric parameters are not treatable statistically. The author discusses specific scenarios for using specific scenarios for profiling vertical aerosol loading. *Solutions in Lidar Profiling of the Atmosphere* emphasizes the use of common sense when interacting with potentially large distortions inherent in most inversion techniques.

- Addresses the systematic errors in LIDAR measurements
- Proposes specific methods to estimate systematic distortions
- Explains how to apply these methods to both simulated and real data

*Solutions in Lidar Profiling of the Atmosphere* is written for scientists, researchers, and graduate students in Meteorology and Geophysics.

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