



# Lidar: Range-Resolved Optical Remote Sensing of the Atmosphere (Springer Series in Optical Sciences)

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## Lidar: Range-Resolved Optical Remote Sensing of the Atmosphere (Springer Series in Optical Sciences) From Springer

Written by leading experts in optical radar, or lidar, this book brings all the recent practices up-to-date. With a Foreword by one of the founding fathers in the area. Its broad cross-disciplinary scope should appeal to scientists ranging from the view of optical sciences to environmental engineers. Optical remote sensing has matured to become a lead method for cross-disciplinary research. This new multi-authored book reviews the state-of-the-art in a readable monograph.

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### Editorial Review

#### Review

##### From the reviews:

"This book covers, for each of the major variants of the lidar technique, the underlying physics – how it works, its mathematics – what the relevant equations look like, the basic layout of an instrument, and examples of atmospheric properties . . . . Some of the chapters contain original material that cannot be found in books or archival journals, but is presented here for the first time. . . . The broad cross-interdisciplinary scope should appeal to scientists ranging from the view of optical sciences to environmental engineers." (Jürgen Pappel, *Optik*, Vol. 117 (7), 2006)

"This book has each chapter written by a different expert in the field. This has the advantage of having some of the best expertise available . . . . the book supplies a comprehensive view of all the important techniques and applications now used . . . . covers the physics and mathematics of the interaction, instrumentation and examples of applications with field results. . . . succeeds in highlighting the extensive uses of lidar in the remote sounding of the atmosphere and its exciting future possibilities." (C.M.R. Platt, *Australian Physics*, Vol. 42 (6), 2006)

"The book . . . covering the basic theory and current practice of lidar in a consistent and fairly uniform style. It should be very useful to readers who, like me, have some knowledge of the basics of lidar and some of the standard techniques . . . . This book provides clear, up-to-date accounts of current work on remote sensing of the atmosphere with lasers. I enjoyed reading it and . . . will be especially useful for newcomers to the field." (Peter W. Milonni, *Contemporary Physics*, Vol. 50 (5), September-October, 2009)

#### From the Back Cover

Written by leading experts in optical radar, or lidar, this book brings all the recent practices up-to-date and covers a multitude of applications, from atmospheric sciences to environmental protection. Its broad cross-disciplinary scope should appeal to both the experienced scientist and the novice in the field. The Foreword is by one of the early pioneers in the area, Herbert Walther.

#### About the Author

The editor, formerly heading a group of scientists at GKSS Research Center in Geesthacht, Germany, is now a consultant to GKSS. He carried out and supervised many projects in lidar development and applications, both theoretical and experimental. He was awarded Honorary Citizenship of the State of Tennessee and the International Committee on Laser Atmospheric Soundings (ICLAS) Lifetime Award.

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