



# Micrometeorology

By Thomas Foken

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## Micrometeorology By Thomas Foken

After the successful issue of two editions of the German book Applied Meteorology – Micrometeorological basic I am happy that the Springer publishing house has agreed to publish an English edition for a probably much larger community of readers. The present edition is the translation of the second German edition of 2006 with only small corrections and changes. It is named only Micrometeorology because this title is more appropriate to the context of the book. I am extremely happy that I found with Carmen Nappo a scientist, who has edited my first translation into the English language in such a way that keeps alive the style of a German or European book and also makes it easily readable. It was not my aim to transfer the book into a style where the German and R- sian backgrounds of my teachers cannot be seen. On the other hand, I hope that the reader will find some references of interest. These are mainly references to German standards or historical sources. The book is addressed to graduate students, scientists, practical workers, and those who need knowledge of micrometeorology for applied or ecological studies. The main parts are written as a textbook, but also included are references to historical sources and recent research even though the final solutions are still under discussion.

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## **Micrometeorology By Thomas Foken Bibliography**

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### Editorial Review

#### Review

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"Micrometeorology is the English translation of ... original German text, and it builds on Foken's 30 years of experience in experimental micrometeorology. ... The book is geared for postgraduate scientists and practicing experts in meteorology, surface climatology, air pollution, and other environment applications. ... If you ... need to understand the turbulent surface layer, you will want to get this book. ... This is an excellent handbook and reference for experimental micrometeorology in the atmospheric surface layer." (Roland Stull, EOS, Vol. 90 (1), January, 2009)

#### From the Back Cover

This book focuses on atmospheric processes which directly effect human environments within the lowest 100-1000 meters of the atmosphere over regions of only a few kilometers in extent. The book is the English translation of the second edition of the German book "Applied Meteorology – Micrometeorological Methods". It presents, with selected examples, the basics of micrometeorology applied to disciplines such as biometeorology, agrometeorology, hydrometeorology, technical meteorology, environmental meteorology, and biogeoscience. The important issues discussed in this book are the transport processes and fluxes between the atmosphere and the underlying surface. Vegetated and heterogeneous surfaces are special subjects. The author covers the areas of theory, measuring techniques, experimental methods and modeling in all the ways that can be used independently in teaching, research or practical applications.

#### About the Author

Thomas Foken was born in 1949 in Zwickau, Germany. He studied meteorology in Berlin, and received his Ph.D. in 1978 in Leipzig. His research topic was marine micrometeorology. He received his second doctor's degree in 1990 in Berlin. From 1981 to 1997 he was the Head of Laboratories of the Meteorological Service of the GDR (after 1990 the German Meteorological Service) at the Meteorological Observatories in Potsdam and Lindenberg. In 1997, Dr. Foken became Professor of Micrometeorology at the University of Bayreuth. He has taught courses on micrometeorology and geoecology in Berlin, Potsdam and Bayreuth; he has published numerous scientific papers, and also participated in national and international experiments and research projects.

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