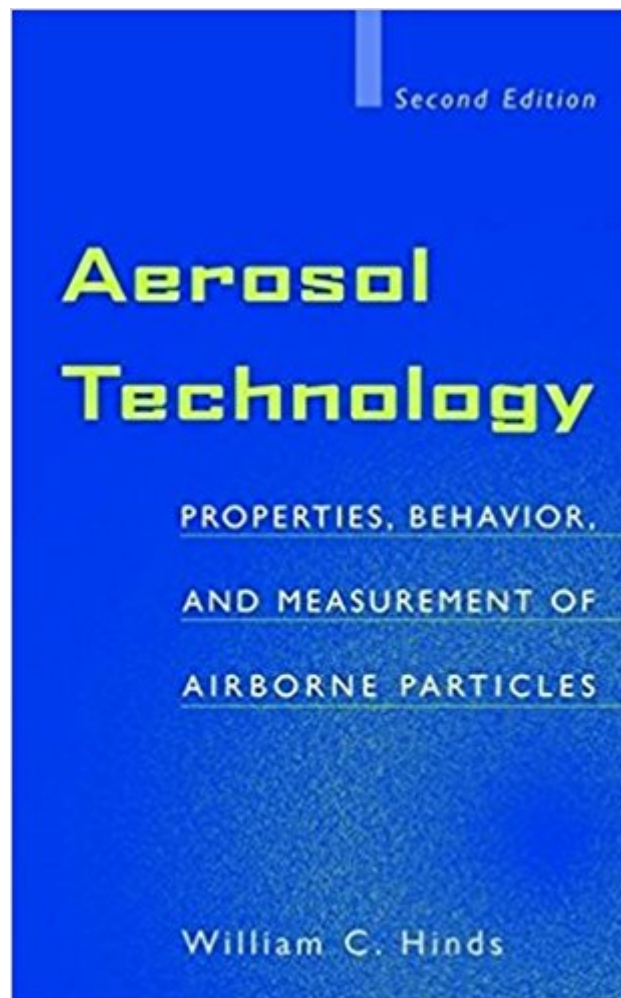




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# Aerosol Technology: Properties, Behavior, And Measurement Of Airborne Particles



## Synopsis

The #1 guide to aerosol science and technology -now better than ever Since 1982, Aerosol Technology has been the text of choice among students and professionals who need to acquire a thorough working knowledge of modern aerosol theory and applications. Now revised to reflect the considerable advances that have been made over the past seventeen years across a broad spectrum of aerosol-related application areas - from occupational hygiene and biomedical technology to microelectronics and pollution control -this new edition includes:

- \* A chapter on bioaerosols
- \* New sections on resuspension, transport losses, respiratory deposition models, and fractal characterization of particles
- \* Expanded coverage of atmospheric aerosols, including background aerosols and urban aerosols
- \* A section on the impact of aerosols on global warming and ozone depletion.

Aerosol Technology, Second Edition also features dozens of new, fully worked examples drawn from a wide range of industrial and research settings, plus new chapter-end practice problems to help readers master the material quickly.

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## Customer Reviews

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WILLIAM C. HINDS, PhD, is a professor in the Department of Environmental Health Sciences at the UCLA School of Public Health. His primary research interest is fundamental and applied research related to aerosols and industrial control of airborne contaminants, including respiratory protection. A Diplomate of the American Board of Industrial Hygiene (comprehensive practice) and a Fellow of the American Industrial Hygiene Association, he has published numerous articles on aerosols.

Overall the content in this text is great, the wording is written so a novice will learn lots and even an experienced student will be a little confused. Great for aerosol reference. Love the chapter on respiratory deposition!! had a tough time with the problems in this book, even though the instructor walked us through lots of the problems. Great for advanced level though expect problems if you are not familiar

This is an excellent textbook for aerosol dynamics for anyone interested in learning about airborne particles. It is an extremely relevant book for students (undergraduate and graduate level) and researchers in the field. The book provides a lot of examples that utilizes new equations and all the problems have the final answers provided. In addition to providing fundamental aerosol basics, the author also discusses instruments that are used in the field to collect data on aerosols. Overall, this is an excellent text that covers all the fundamentals of aerosol technology.

QUICK DELIVERY AND NICE BOOK

A bit expensive, but a great book.

The book really treat aerosol sciences very well but it does not provide much solution and insight to the question at the end of the chapters. people who have done maths a long time ago have problem

solving the problems.

Is a good book, technical enough to learn a lot about aerosols, but at the same time easy to understand.

This is a very good book on aerosols. It is easy to understand and the review problems are fair and understandable.

How is the aerosol from hair spray related to a carbonated drink or a sponge? It all has to do with what is finely dispersed and what medium suspends this dispersion. With these provoking thoughts, William C. Hinds leads us into the particulars of suspended particles: aerosols. Dr. Hinds has accomplished an amazing feat here. Understanding this complicated field requires familiarity with at least one year of college calculus. With an eloquent writing style laced with differentials and derivations, he describes the various phenomena of aerosols, including particle settling speed, respirability, light scattering, dust explosions, and much more. His description of aerosol measurement techniques is interesting and detailed. (You would be surprised at how complicated are the physics of filtration!) What is truly special, however, is his ability to effectively describe in words what the equations are saying. You can grasp a feel for the phenomena described even if some of the differentials leave you stumped. With problems (and their answers--NOT solutions!) at the end of each chapter, this is an ideal text for graduate students in public health, engineering, industrial hygiene, or toxicology. Professionals working in these fields, however, will find the book a valuable reference. The text is filled with helpful tables and figures, and the more rigorous proofs of important formulas are presented in appendices. References end each chapter. Already 15 years old, the book remains a benchmark. Oh--and the sponge? The disperse phase is air, the suspending medium is solid. Hmm.

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