



# Nanotechnology: Basic Calculations for Engineers and Scientists

*By Louis Theodore*

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**Nanotechnology: Basic Calculations for Engineers and Scientists** By Louis Theodore

A practical workbook that bridges the gap between theory and practice in the nanotechnology field

Because nanosized particles possess unique properties, nanotechnology is rapidly becoming a major interest in engineering and science. *Nanotechnology: Basic Calculations for Engineers and Scientists*—a logical follow-up to the author's previous text, *Nanotechnology: Environmental Implications and Solutions*—presents a practical overview of nanotechnology in a unique workbook format.

The author has developed nearly 300 problems that provide a clear understanding of this growing field in four distinct areas of study:

- \* Chemistry fundamentals and principles
- \* Particle technology
- \* Applications
- \* Environmental concerns

These problems have been carefully chosen to address the most important basic concepts, issues, and applications within each area, including such topics as patent evaluation, toxicology, particle dynamics, ventilation, risk assessment, and manufacturing. An introduction to quantum mechanics is also included in the Appendix. These stand-alone problems follow an orderly and logical progression designed to develop the reader's technical understanding.

"This is certain to become the pacesetter in the field, a text to benefit both students of all technical disciplines and practicing engineers and researchers."  
-Dr. Howard Beim, Professor of Chemistry, U.S. Merchant Marine Academy

"Dr. Theodore has covered most of the important nanotechnology subject matter in this ...work through simple, easy-to-follow problems."  
-John McKenna, President and CEO, ETS, Inc.

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#### Review

"...not only be helpful for students of this relatively new science but students of several related sciences...and anyone in the field." (*E-STREAMS*, June 2007)

"...would benefit students and engineers or scientists working with nanomaterials or those needing to brush up on general chemistry or who need a reference book on various chemistry calculations." (*IEEE Electrical Insulation Magazine*, November/December 2006)

"...the author has done an exceedingly good job at providing problems and their solutions." (*Journal of Hazardous Materials*, September 1, 2006)

#### From the Back Cover

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#### About the Author

**LOUIS THEODORE**, Eng. Sc.D., is a consultant for Theodore Tutorials, a company specializing in

providing training solutions to industry, academia, and government. In addition to receiving awards from both the International Air and Waste Management Association and the American Society for Engineering Education, Dr. Theodore is the author/coauthor of numerous books, including *Nanotechnology: Environmental Implications and Solutions*; *Introduction to Hazardous Waste Incineration, Second Edition*; and *Handbook of Chemical and Environmental Engineering Calculations* (all published by Wiley).

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