



Nano: The Essentials

By *T. Pradeep*

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Master the Fundamentals of Nanotechnology to Prepare for Nano-Related Career Opportunities

If you want to move into the fast-growing field of nanotechnology, you can't afford to miss *Nano--The Essentials*. This career-building resource offers a rigorous, technological introduction to the fundamentals of nanotechnology, providing everything you need to enter this burgeoning discipline and prepare for nano-related jobs.

Packed with over 100 detailed illustrations and lots of practical work-related advice, the book covers the experimental tools of nanotechnology, the basics of nanomaterials, and key applications in fields such as nanosensors, nanobiology, nanomedicine, and nanomachines. This on-target guide takes readers step-by-step through the manipulation of materials in the nanoscale ...fullerenes...carbon nanotubes...self-assembled nanolayers... gas-phase clusters...monolayer-protected metal nanoparticles...core-shell nanoparticles...and much more. Comprehensive and easy-to-understand, *Nano--The Essentials* features:

- A solid introduction to the fundamentals of nanomaterials
- Full details on the experimental tools used in nanotechnology
- The latest advances in nanobiology and nanomedicine
- Breakthroughs in the development of nanosensors
- Cutting-edge innovations in molecular nanomachines

Inside this Expert Introduction to the Basics of Nanotechnology

- Introduction • Manipulating Materials in the Nanoscale • Fullerenes • Carbon Nanotubes • Self-Assembled Nanolayers • Gas-Phase Clusters • Semiconductor Quantum Dots • Monolayer-Protected Metal Nanoparticles • Core-Shell Nanoparticles • Nanoshells • Nanobiology • Nanosensors • Nanomedicines • Molecular Nanomachines • Nanotribology • Societal Implications



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Nano: The Essentials By T. Pradeep Bibliography

- Sales Rank: #2083791 in Books
- Published on: 2008-05-06
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 1.29" w x 7.70" l, 2.16 pounds
- Binding: Hardcover
- 456 pages



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Editorial Review

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T. Pradeep, Ph.D., is a Professor in the Department of Chemistry & Sophisticated Analytical Instrument Facility (SAIF) at the Indian Institute of Technology, Madras. He is the author of Advances in Physical Chemistry and co-author of Nanofluids: Science and Technology. Dr. Pradeep also has written over 150 research papers and holds 5 patents.

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