



# Nano: The Essentials

*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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