

About the Book:-

The book is meant to acquaint the readers about the foundations of Nanotechnology like what is Nanotechnology, why Nanotechnology, what are new Nanomaterials, how to synthesize Nanomaterials and what are the techniques for these, how to analyze Nanomaterials with advanced microscopes, and spectroscopies as well as applications of Nanotechnology. Certainly you will get answers to above questions as in the previous editions and also find new additions in this edition. You will find the inclusion of Mechanical bond, Atomic Layer Deposition (ALD) techniques, a new Chapter on Carbon nano family. Wearable Electronics, Nano generators, using Piezoelectric and triboelectric effects. Nanosensors and Nanocomposites also are included in this fourth edition of the book.

Contents:-

- 1) Introduction to Quantum Mechanics
- 2) Structure and Bonding
- 3) Synthesis of Nanomaterials I
- 4) Synthesis of Nanomaterials – II
- 5) Synthesis of Nanomaterials-III
- 6) Self Assembly
- 7) Analysis Techniques
- 8) Types of Nanomaterials and Their Properties
- 9) Carbon Nano Family
- 10) Novel Nanomaterials
- 11) Nanolithography
- 12) Nanoelectronics
- 13) Applications
- 14) Nanotechnology and Environment