



# Essentials in Nanoscience and Nanotechnology

By Narendra Kumar, Sunita Kumbhat



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This book describes various aspects of nanoscience and nanotechnology. It begins with an introduction to nanoscience and nanotechnology and includes a historical prospective, nanotechnology working in nature, man-made nanomaterial and impact of nanotechnology illustrated with examples.

It goes on to describes general synthetic approaches and strategies and also deals with the characterization of nanomaterial using modern tools and techniques to give basic understanding to those interested in learning this emerging area.

It then deals with different kinds of nanomaterial such as inorganics, carbon based-, nanocomposites and self-assembled/supramolecular nano structures in terms of their varieties, synthesis, properties etc. In addition, it contains chapters devoted to unique properties with mathematical treatment wherever applicable and the novel applications dealing with information technology, pollution control (environment, water), energy, nanomedicine, healthcare, consumer goods etc.

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### Editorial Review

#### About the Author

**Dr. Narendra Kumar**, Ph.D., is a Former Director in the Defence Laboratory, Jodhpur. He carried out pioneering research work in the development of Conducting Polymers, Liquid Foam, Nanomaterials and products based on them for various defence applications. Some of them viz. conducting polymer based antistatic and radio-transparent paint RDM-1 and Cam & IRR paints are already in use on military systems. Dr. Kumar has published more than 100 research papers, including four review articles, in International Journals in the areas of Nano Materials, Organometallics, Conducting Polymers, Electrochemical Synthesis etc. Together with one Chapter in Encyclopedia on Nano Science & Technology and has 12 patents to his credit. Recently, he has been awarded with the national MRSI-ICSC Super Conductivity and Materials Science Annual prize for the year 2010 by Materials Research Society of India and Bharat Jyoti Award in 2011 by India International Friendship Society.

**Dr. Sunita Kumbhat**, Ph.D., is Professor and former Head of Chemistry Department at J.N.V. University, Jodhpur. Dr. Kumbhat joined Department of Chemistry, J.N.V. University as permanent faculty member in 1986, selected as Associate Professor in 1992 and Professor in 2001 where she has been involved in teaching graduate and postgraduate courses on Analytical chemistry, Electrochemistry, Sensors and Nanoscience, supervising research. Her area of interest is Electrochemistry, Biosensors, Biomedical & Environmental Analysis. She has published more than 35 research paper, 03 educational films and one patent to her credit. She has supervised 14 research studentd for Ph.D. degree. Awards and recognition includes Commonwealth Academic Staff Fellowship (1994-95) at Oxford, UK., National Associate (1997) at BARC, Mumbai and . INSA-JSPS Visiting Scientist (2005) at Kyushu University, Fukuoka, Japan. Dr. Kumbhat is associated with various Indian and International scientific societies and National Assessment and Accreditation council, Bangalore, India.

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