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constitutes an important
and critical area of study
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various engineering
disciplines. The book is

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a textbook for Materials
Science course offered
in undergraduate
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Marikani as well as
in M.Sc. (Physics and
Chemistry), the book
exposes the fundamental
knowledge of Crystal
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Material Science

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Solids. The text deals with Introductory Quantum Physics, Electrical Properties of Materials, Band Theory of Solids, Semiconducting Materials and Dielectric Materials. Moreover, Properties of Superconducting Materials as well as Optical Properties of Materials and Magnetic

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mechanical properties.

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highlights of the book is
the inclusion of
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Chapters, The Book
Deals With Atomic
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This book covers a wide range of topics including synthesis of nanomaterials with specific size, shape, and properties, structure-function relationships, tailoring the surface of nanomaterials for improving the

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properties, interaction of nanomaterials with proteins/microorganism/eukaryotic cells, and applications in different sectors. This book also provides a strong foundation for researchers who are interested to venture into developing functionalized nanomaterials for any biological applications

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in their research.

Practical concepts such as modelling nanomaterials, and simulating the molecular interactions with biomolecules, transcriptomic or genomic approaches, advanced imaging techniques to investigate the functionalization of nanomaterials/interaction of nanomaterials

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with biomolecules and microorganisms are some of the chapters that offer significant benefits to the researchers.

Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields

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which deal with the science of materials at nanoscale (10^{-9}). On the other hand, biotechnology is another field that deals with contemporary challenges.

Nanobiotechnology fills the gap between these two fields. It merges physical, chemical, and biological principles in a single realm. This

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combination opens up new possibilities. At nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with modified surface layers for compatibility with living systems, improved dissolution in water, or biorecognition leading to enhanced end results in

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biotechnological systems. These nanoparticles can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities. Nanobiotechnology is used in bioconjugate chemistry by coalescing up the functionality of non-organically

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obtained molecular components and biological molecules in order to veil the immunogenic moieties for targeted drug delivery, bioimaging and biosensing. This book blends the science of biology, medicine, bioinorganic chemistry, bioorganic chemistry, material and physical sciences, biomedical

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engineering, electrical,
mechanical, and
chemical science to
present a comprehensive
range of advancements.

The development of
nano-based materials
has made for a greater
understanding of their
characterization, using
techniques such as
transmission electron
microscope, FTIR, X-
ray diffraction, scanning

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electron microscope
EDX, and so on. This
volume also highlights
uses in environmental
remediation,
environmental
biosensors and
environmental
protection. It also
emphasizes the
significance of
nanobiotechnology to a
series of medical
applications viz.,

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diagnostics, and
therapeutics stem cell
technology, tissue
engineering enzyme
engineering, drug
development and
delivery. In addition this
book also offers a
distinctive
understanding of
nanobiotechnology from
researchers and
educators and gives a
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for future developments
and current applications
of nanobiotechnology.

Material Science

Several nano-scale devices have emerged that are capable of analysing plant diseases, nutrient deficiencies and any other ailments that may affect food security in agro-ecosystems. It has been envisioned that smart delivery systems

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can be developed and utilised for better management of agricultural ecosystems.

These systems could exhibit beneficial, multi-functional characteristics, which could be used to assess and also control habitat-imposed stresses to crops. Nanoparticle-mediated smart delivery systems can control the

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delivery of nutrients or bioactive and/or pesticide molecules in plants. It has been suggested that nanoparticles in plants might help determine their nutrient status and could also be used as cures in agro-ecosystems. Further, to enhance soil and crop productivity, nanotechnology has

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been used to create and deliver nano fertilizers, which can be defined as nano-particles that directly help supply nutrients for plant growth and soil productivity. Nano-particles can be absorbed onto clay networks, leading to improved soil health and more efficient nutrient use by crops.

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Additionally, fertilizer particles can be coated with nano-particles that facilitate slow and steady release of nutrients, reducing loss of nutrients and enhancing their efficiency in agri-crops. Although the use of nanotechnology in agro-ecosystems is still in its early stages and needs to be developed further,

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nano-particle-mediated delivery systems are promising solutions for the successful management of agri-ecosystems. In this context, the book offers insights into nanotechnology in agro-ecosystems with reference to biogenic nanoparticles. It highlights the: • occurrence and diversity

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