



The Nanobiotechnology Handbook

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A thorough overview of nanobiotechnology and its place in advances in applied science and engineering, **The Nanobiotechnology Handbook** combines contributions from physics, bioorganic and bioinorganic chemistry, molecular and cellular biology, materials science, and medicine as well as from mechanical, electrical, chemical, and biomedical engineering to address the full scope of current and future developments. World-class experts discuss the role of nanobiotechnology in bioanalysis, biomolecular and biomedical nanotechnology, biosensors, biocatalysis and biofuel, and education and workforce development. It includes a companion CD that contains all figures in the book.

The book begins with discussions of biomimetic nanotechnology, including a comprehensive overview of DNA nanostructure and DNA-inspired nanotechnology, aptamer-functionalized nanomaterials as artificial antibodies, artificial enzymes, molecular motors, and RNA structures and RNA-inspired nanotechnology. It shows how nanotechnology can be inspired by nature as well as adverse biological events in diagnostic and therapeutic development. From there, the chapters cover major important and widely used nanofabrication techniques, applications of nanotechnology for bioprocessing followed by coverage of the applications of atomic force microscopy (AFM), optical tweezers and nanofluidics as well as other nanotechnology-enabled biomolecular and cellular manipulation and detection.

Focusing on major research trends, the book highlights the importance of nanobiotechnology to a range of medical applications such as stem cell technology and tissue engineering, drug development and delivery, imaging, diagnostics, and therapeutics. And with coverage of topics such as nanotoxicity, responsible nanotechnology, and educational and workforce development, it provides a unique overview and perspective of nanobiotechnology impacts from a researcher's, entrepreneur's, economist's and educator's point of view. It provides a resource for current applications and future development of nanobiotechnology.

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