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organisms, and refers to the functional applications of biomolecules in nanotechnology. Biomolecules are the building blocks of all living organisms, and their functional properties are determined by their structural and functional characteristics. This book offers a comprehensive review of the state of the art in bio-nanotechnology with an emphasis on the diverse applications in food and nutrition sciences, biomedicine, and environmental sciences. It covers the latest research in the use of nanotechnology in food packaging, processing, preservation, packaging, and safety assessment. The book encompasses basic studies and addresses novel issues, covering all aspects of modern science, having vital applications in the food chain, storage, quality monitoring, processing, preservation, and packaging. The global population is increasing rapidly, therefore, there is a requirement to produce food products in a more proficient, non-toxic, and sustainable way.