Nanoscience and Nanotechnology for Human Health. Applications of Nanotechnology

Description: Unique in combining the expertise of practitioners from university hospitals and that of academic researchers, this timely monograph presents selected topics catering specifically to the needs and interests of natural scientists and engineers as well as physicians who are concerned with developing nanotechnology–based treatments to improve human health.

To this end, the book covers the materials aspects of nanomedicine, such as the hierarchical structure of biological materials, the imaging of hard and soft tissues and, in particular, concrete examples of nanotechnology–based approaches in modern medical treatments. The whole is rounded off by a discussion of the opportunities and risks of using nanotechnology and nanomaterials in medicine, backed by case studies taken from real life.

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