Boron Nitride Nanotubes in Nanomedicine. Micro and Nano Technologies

Description: Boron Nitride Nanotubes in Nanomedicine compiles, for the first time in a single volume, all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine. Boron nitride nanotubes (BNNTs) represent an innovative and extremely intriguing class of nanomaterials.

After introducing BNNTs and explaining their preparation and evaluation, the book shows how the physical, chemical, piezoelectric and biocompatibility properties of these nanotubes give rise to their potential uses in biomedicine. Evidence is offered (from both in vitro and in vivo investigations) for how BNNTs can be useful in biomedical and nanomedicine applications such as therapeutic applications, tissue regeneration, nanovectors for drug delivery, and intracellular nanotransducers.

- Covers a range of promising biomedical BNNT applications
- Provides great value not just to academics but also industry researchers in fields such as materials science, molecular biology, pharmacology, biomedical engineering, and biophysical sciences
- Offers evidence for how BNNTs can be useful in biomedical and nanomedicine applications such as therapy, tissue regeneration, nanovectors for drug delivery, and intracellular nanotransducers
- Incorporates, for the first time in a single volume, all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine

Contents:

1. Introduction to Boron Nitride Nanotubes: Synthesis, Properties, Functionalization, and Cutting
2. Functionalization of Boron Nitride Nanotubes for Applications in Nanobiomedicine
3. Biocompatibility Evaluation of Boron Nitride Nanotubes and Drugs
4. Theoretical Investigations of Interactions between Boron Nitride Nanotubes and Drugs
5. Boron Nitride Nanotubes as Drug Carriers
6. Applications and Perspectives of Boron Nitride Nanotubes in Cancer Therapy
7. Boron Nitride Nanotubes as Magnetic Resonance Imaging Contrast Agents
8. Boron Nitride Nanotubes as Nanotransducers
10. Boron Nitride Nanotubes as Bionanosensors
11. Boron Nitride Nanotube Films: Preparation, Properties, and Implications for Biology Applications
12. Structural and Physical Properties of Boron Nitride Nanotubes and Their Applications in Nanocomposites
13. Boron Nitride Nanotubes in Nanomedicine: Historical and Future Perspectives

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