



Computational Nanomedicine and Nanotechnology: Lectures with Computer Practicums (Hardback)

By Renat R. Letfullin, Thomas F. George

Springer International Publishing AG, Switzerland, 2017. Hardback. Condition: New. 1st ed. 2016. Language: English . Brand New Book. This textbook, aimed at advanced undergraduate and graduate students, introduces the basic knowledge required for nanomedicine and nanotechnology, and emphasizes how the combined use of chemistry and light with nanoparticles can serve as treatments and therapies for cancer. This includes nanodevices, nanophototherapies, nanodrug design, and laser heating of nanoparticles and cell organelles. In addition, the book covers the emerging fields of nanophotonics and nanoplasmonics, which deal with nanoscale confinement of radiation and optical interactions on a scale much smaller than the wavelength of the light. The applications of nanophotonics and nanoplasmonics to biomedical research discussed in the book range from optical biosensing to photodynamic therapies. Cutting-edge and reflective of the multidisciplinary nature of nanomedicine, this book effectively combines knowledge and modeling from nanoscience, medicine, biotechnology, physics, optics, engineering, and pharmacy in an easily digestible format. Among the topics covered in-depth are: * The structure of cancer cells and their properties, as well as techniques for selective targeting of cancer and gene therapy. * Nanoplasmonics: Lorentz-Mie simulations of optical properties of nanoparticles and the use of plasmonic nanoparticles in diagnosis and therapy. * Nanophotonics: short and ultrashort...

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