Introduction to Nanomedicine and Nanobioengineering

Paras N. Prasad
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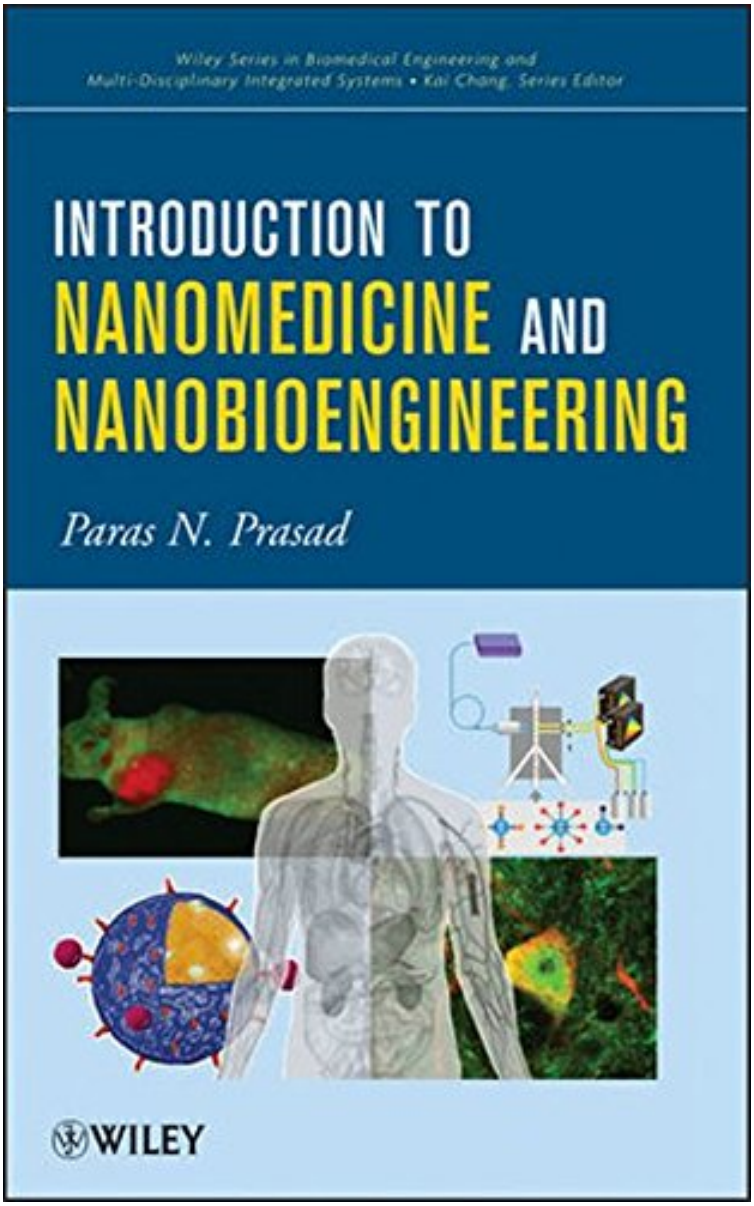

#1334639 in Books Wiley 2012-06-19Original language:EnglishPDF # 1 9.50 x 1.50 x 6.40l, 2.10 #File Name: 1118093437608 pages | File size: 71.Mb

Paras N. Prasad : Introduction to Nanomedicine and Nanobioengineering before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Nanomedicine and Nanobioengineering:

0 of 0 people found the following review helpful. Five StarsBy Jrgen ElgqvistJust perfect.0 of 1 people found the following review helpful. Four StarsBy CarlosReally good to start

This book is an introduction to the emerging field of nanomedicine and its applications to health care. It describes the many multidisciplinary challenges facing nanomedicine and discusses the required collaboration between chemists, physicists, engineers and clinicians. The book introduces the reader to nanomedicine's vast potential to improve and extend human life through the application of nanomaterials in diagnosis and treatment of disease.

This volume is most handy for those in the physics, chemistry, or materials science fields who are interested in biomedical applications of nanotechnology; it would also be useful for those in the biological or medical fields who are interested in learning how nanotechnology would be beneficial to their research. Summing Up: Recommended. Upper-division undergraduates and above. (Choice, 1 January 2013)From the Back CoverThe first comprehensive and authoritative introduction to Nanomedicine and Nanobioengineering Nanomedicine and nanobioengineering fuse nanotechnology with medicine and bioengineering. They are emerging new frontiers, providing challenges for fundamental research and opportunities for revolutionary advances in medical technology. They also provide a global vision to produce breakthrough approaches for meeting our current and future healthcare needs. Introduction to Nanomedicine and Nanobioengineering provides an integrated description of nanomedicine and nanobioengineering for next-generation diagnostics and therapy. It presents a basic introduction to a broad range of topics in an integrated manner, so that individuals in all disciplines can rapidly acquire the background needed for research and development in this field. It is intended to serve both as a textbook for education and training, as well as a reference book that aids further advancement in areas integrating nanotechnology with medicine and bioengineering. The book encompasses the fundamentals of nanomaterials design, bioengineering, nanodiagnostics, and nanotherapy. It is intended to benefit investigators and students from the disciplines of chemistry, physics, biology, biomedical sciences, and engineering, as well as medical, pharmacy, and dental school trainees and practitioners, and scientists from the pharmaceutical and cosmetic industries.About the AuthorPARAS N. PRASAD, PhD, is the SUNY Distinguished Professor of Chemistry, Physics, Electrical Engineering, and Medicine; the Samuel P. Capen Chair of Chemistry; and the Executive Director of the Institute for Lasers, Photonics, and Biophotonics at the University at Buffalo. He was named among the top 50 science and technology leaders in the world by Scientific American in 2005. He has published 700 scientific and technical papers in high-impact journals, three monographs that practically defined the fields of organic nonlinear optics, biophotonics, and nanophotonics, eight edited books, and holds numerous patents. He is the recipient of many scientific awards and honors (Morley Medal; Schoellkopf Medal; Guggenheim Fellowship; Sloan Fellowship; Western New York Health Care Industries Technology/Discovery Award; Fellow of the APS, OSA, and SPIE). He is a pioneer in nanomedicine and nanobioengineering, and has been giving plenary, opening, and keynote lectures worldwide in this field.