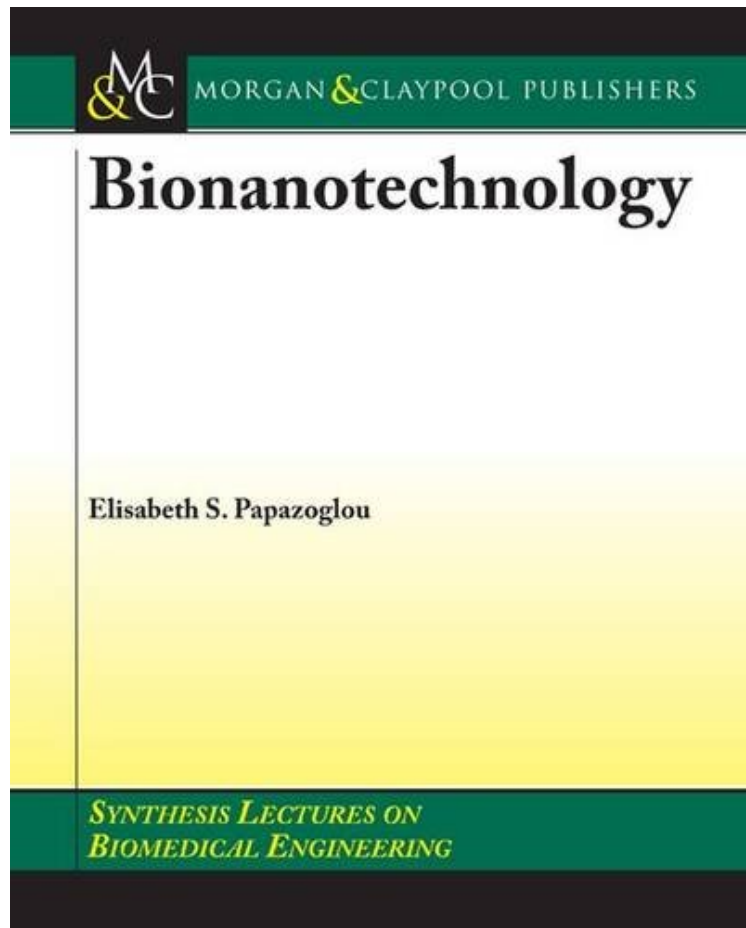


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BioNanotechnology (Synthesis Lectures on Biomedical Engineering)

Elisabeth S. Papazoglou, Aravind Parthasarathy
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Elisabeth S. Papazoglou, Aravind Parthasarathy : BioNanotechnology (Synthesis Lectures on Biomedical Engineering) before purchasing it in order to gauge whether or not it would be worth my time, and all praised BioNanotechnology (Synthesis Lectures on Biomedical Engineering):

1 of 1 people found the following review helpful. Strongly recommended for beginners, grads and researchers By Ivy League Kind of cool book like a detailed review paper. From intro to chapter 7, the approach seems very objective. However the synthesis chapter needs some chemistry background in understanding. The first two chapters give good perspective of the topic through simple examples. The best part of the book is the last 2 chapters, it has some interesting global perspectives and question of ethics, pros and cons of the technology. As a researcher, myself, kinda found the references pretty useful and impressive. I think it's a good buy for someone who wants to get an idea of Bionano apps in health care (the book focuses on 3 apps - drug delivery, imaging and devices) or if you are a grad student, it gives a great sense of direction to experiment. If you are a researcher looking for trying out newer recipes this is a great place to look, like I said before you will find the synthesis chapter useful. The application - Chapter 6 and

commercialization - chapter 7 gives some critical analysis on various related topics. Overall I find it simple to understand and mostly keeping things objective in many chapters is pretty impressive. I strongly recommend reading this if you want to get introduced to the topic, its a good buy. 0 of 0 people found the following review helpful. garbage 1st chapter By W Boudville The first chapter is sloppily written. For one, it describes Neils Bohr as a "Noble Laureate" [sic]. Then, not content with this, it goes on to provide a faulty derivation of the Bohr radius of a hydrogen atom. On p.19, its equation for the kinetic energy, (1.8) , is given with no derivation. While the next page says " $\ln r = \dots$ ". The logarithm should have been omitted. Beyond this, the chapter is simply off when it claims that "Bohr's model is arguably the simplest and most realistic model of quantum mechanics". Utter rubbish. It may be the simplest model. But its deficiencies were admitted by Bohr himself, as an ad hoc mish mash of classical mechanics and some new fangled quantum ideas. It was the Schrodinger equation, and thence the Dirac equation, of a few years later that would provide a far more unified and powerful description of quantum mechanics. The Bohr model does not produce wave functions or any way to accomodate spin, or any predictions of antimatter.

This book aims to provide vital information about the growing field of bionanotechnology for undergraduate and graduate students, as well as working professionals in various fields. The fundamentals of nanotechnology are covered along with several specific bionanotechnology applications, including nanobioimaging and drug delivery which is a growing \$100 billions industry. The uniqueness of the field has been brought out with unparalleled lucidity; a balance between important insight into the synthetic methods of preparing stable nano-structures and medical applications driven focus educates and informs the reader on the impact of this emerging field. Critical examination of potential threats followed by a current global outlook completes the discussion. In short, the book takes you through a journey from fundamentals to frontiers of bionanotechnology so that you can understand and make informed decisions on the impact of bionano on your career and business.