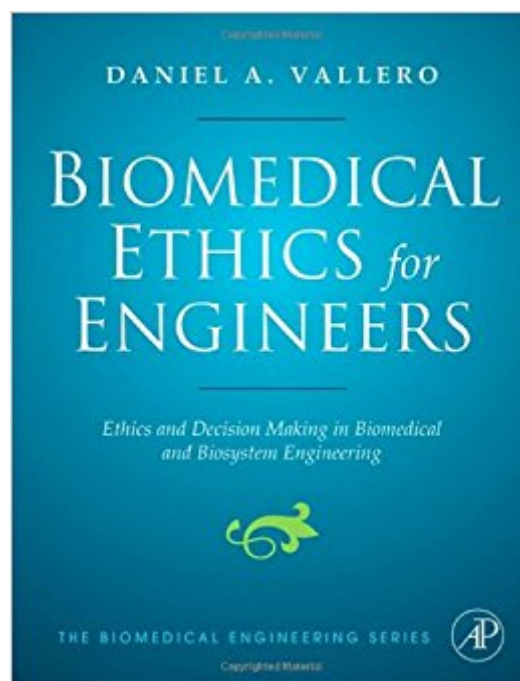




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Biomedical Ethics For Engineers: Ethics And Decision Making In Biomedical And Biosystem Engineering (Biomedical Engineering Series)



Synopsis

Biomedical Ethics for Engineers provides biomedical engineers with a new set of tools and an understanding that the application of ethical measures will seldom reach consensus even among fellow engineers and scientists. The solutions are never completely technical, so the engineer must continue to improve the means of incorporating a wide array of societal perspectives, without sacrificing sound science and good design principles. Dan Vallero understands that engineering is a profession that profoundly affects the quality of life from the subcellular and nano to the planetary scale. Protecting and enhancing life is the essence of ethics; thus every engineer and design professional needs a foundation in bioethics. In high-profile emerging fields such as nanotechnology, biotechnology and green engineering, public concerns and attitudes become especially crucial factors given the inherent uncertainties and high stakes involved. Ethics thus means more than a commitment to abide by professional norms of conduct. This book discusses the full suite of emerging biomedical and environmental issues that must be addressed by engineers and scientists within a global and societal context. In addition it gives technical professionals tools to recognize and address bioethical questions and illustrates that an understanding of the application of these measures will seldom reach consensus even among fellow engineers and scientists. • Working tool for biomedical engineers in the new age of technology • Numerous case studies to illustrate the direct application of ethical techniques and standards • Ancillary materials available online for easy integration into any academic program

Book Information

Series: Biomedical Engineering Series

Hardcover: 408 pages

Publisher: Academic Press; 1 edition (April 13, 2007)

Language: English

ISBN-10: 0750682272

ISBN-13: 978-0750682275

Product Dimensions: 7.6 x 1 x 9.5 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

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