



Biomedical Science and Technology: Recent Developments in the Pharmaceutical and Medical Sciences (Paperback)

By -

Springer-Verlag New York Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Advancing with Biomedical Engineering Today, in most developed countries, modern hospitals have become centers of sophisticated health care delivery using advanced technological methods. These have come from the emergence of a new interdisciplinary field and profession, commonly referred to as Biomedical Engineering. Although what is included in the field of biomedical engineering is quite clear, there are some disagreements about its definition. In its most comprehensive meaning, biomedical engineering is the application of the principles and methods of engineering and basic sciences to the understanding of the structure-function relationships in normal and pathological mammalian tissues, as well as the design and manufacture of products to maintain, restore, or improve tissue functions, thus assisting in the diagnosis and treatment of patients. In this very broad definition, the field of biomedical engineering now includes: * System analysis (modeling, simulation, and control of the biological system) * Biomedical instrumentation (detection, measurement, and monitoring of physiologic signals) * Medical imaging (display of anatomic details or physiologic functions for diagnosis) * Biomaterials (development of materials used in prostheses...



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