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As biomaterials are used in medical devices, providing needs in such diverse surgical disciplines as ophthalmology, cardiology, neuromuscular surgery, orthopedics, dentistry etc., they must have intimate contact with patient's tissue or body fluid providing a real physical interface, which restricts developments most seriously. This book is written for those who would like to advance their knowledge of biomaterials. The subject matter of the book is divided into twelve chapters dealing with structure and relationship of biological and man made biomaterials. The application of these materials for various medical devices and recent developments in tissue engineering has also covered. New to the Second Edition · Recent developments in the biomedical applications of tissue engineering, drug delivery systems, electrical stimulation, biosensors and textiles · Describes the importance of safety and efficacy testing of devices prior to clinical use