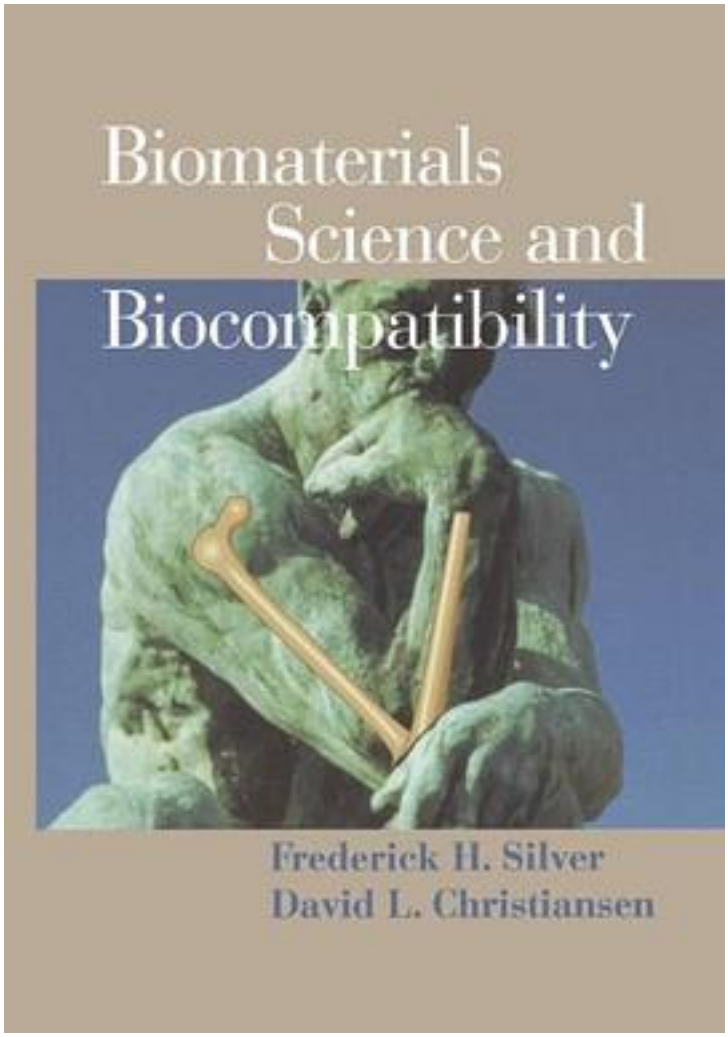
Biomaterials Science and Biocompatibility



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This text for students and researchers, takes an interdisciplinary approach to

describing the chemistry and physics of materials, their biocompatibility, and the consequences of implantation of devices made of these materials into the human body. The reader is introduced to the principles of polymer science and the study of metals, ceramics and composites, and also to the basic biology required to understand the nature of the host-transplant interface. Topics covered in this book include the macromolecular components of cells and tissues, self-assembly processes, biological cascade systems, microscopic structure of cells and tissues, immunology, transplantation biology, and the pathobiology of wound healing. Topics covered in the materials science chapters include the structures and properties of polymers, metals, ceramics and composites, and the processes for forming materials as well as the pathobiology of devices. The final two chapters deal with tissue engineering and the relations between the biology of cells and tissue transplantation, and the engineering of tissue replacements using passaged cells.

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