



# Biomaterials Science and Biocompatibility

*Frederick H. Silver, David L. Christiansen*

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Adopting an interdisciplinary approach to the chemistry and physics of materials, their biocompatibility, and the consequences of implantation of such devices into the human body, this text introduces readers 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 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. The materials science section includes 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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