

An Introduction to Tissue-Biomaterial Interactions



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出版者:Wiley-Liss

出版时间:2002-09-02

装帧:Hardcover

isbn:9780471253945

An Introduction to Tissue-Biomaterial Interactions acquaints an undergraduate audience with the fundamental biological processes that influence these sophisticated, cutting-edge procedures. Chapters one through three provide more detail about the molecular-level events that happen at the tissue-implant interface, while chapters four through ten explore selected material, biological, and physiological consequences of these events. The importance of the body's wound-healing response is emphasized throughout. Specific topics covered include:<ul

Structure and properties of biomaterials

Proteins

Protein-surface interactions

Blood-biomaterial interactions

Inflammation and infection

The immune system

Biomaterial responses to implantation

Biomaterial surface engineering

Intimal hyperplasia and osseointegration as examples of tissue-biomaterial interactions

The text also provides extensive coverage of the three pertinent interfaces between the body and the biomaterial, between the body and the living cells, and between the cells and the biomaterial that are critical in the development of tissue-engineered products that incorporate living cells within a biomaterial matrix. Ideal for a one-semester, biomedical engineering course, *An Introduction to Tissue-Biomaterial Interactions* provides a solid framework for understanding today's and tomorrow's implantable biomedical devices.

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