



Advanced Biomaterials and Biodevices (Advanced Material Series)

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This cutting-edge book focuses on the emerging area of biomaterials and biodevices that incorporate therapeutic agents, molecular targeting, and diagnostic imaging capabilities

The design and development of biomaterials play a significant role in the diagnosis, treatment, and prevention of diseases. When used with highly selective and sensitive biomaterials, cutting-edge biodevices can allow the rapid and accurate diagnosis of disease, creating a platform for research and development, especially in the field of treatment for prognosis and detection of diseases in the early stage. This book emphasizes the emerging area of biomaterials and biodevices that incorporate therapeutic agents, molecular targeting, and diagnostic imaging capabilities.

The 15 comprehensive chapters written by leading experts cover such topics as:

- The use of severe plastic deformation technique to enhance the properties of nanostructured metals
- Descriptions of the different polymers for use in controlled drug release
- Chitin and chitosan as renewable healthcare biopolymers for biomedical applications
- Innovated devices such as “label-free biochips” and polymer MEMS
- Molecular imprinting and nanotechnology
- Prussian Blue biosensing applications
- The evaluation of different types of biosensors in terms of their cost effectiveness, selectivity, and sensitivity
- Stimuli-responsive polypeptide nanocarriers for malignancy therapeutics

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