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Metallic biomaterials are a central class of materials for use in medical devices. This is primarily due to the high strength and other mechanical properties associated with these materials. This chapter provides an introduction to the basic science of metals focused specifically on alloys used as biomaterials.

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Bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology,

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robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus. Biomaterials Science, 4th edition is an important update

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to the best-selling text, vital to the biomaterials' community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for each chapter

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Comprehensive Biomaterials II, Second Edition brings together the myriad facets of biomaterials into one expertly-written series of edited volumes. Articles address the current status of nearly all biomaterials in the field, their strengths and weaknesses, their future prospects, appropriate analytical methods and testing, device applications and performance, emerging candidate materials as competitors and disruptive technologies, research and development, regulatory management, commercial aspects, and applications, including medical applications. Detailed

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Coverage is given to both new and emerging areas and the latest research in more traditional areas of the field. Particular attention is given to those areas in which major recent developments have taken place. This new edition, with 75% new or updated articles, will provide biomedical scientists in industry, government, academia, and research organizations with an accurate perspective on the field in a manner that is both accessible and thorough. Reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses, performance, and future prospects

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Covers all significant emerging technologies in areas such as 3D printing of tissues, organs and scaffolds, cell encapsulation; multimodal delivery, cancer/vaccine - biomaterial applications, neural interface understanding, materials used for in situ imaging, and infection prevention and treatment Effectively describes the many modern aspects of biomaterials from basic science, to clinical applications

This book presents a broad scope of the field of biomaterials science and technology, focusing on theory, advances and

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Applications. It is written for those who would like to develop their interest and knowledge towards biomaterials or materials science and engineering. All aspects of biomaterials science are thoroughly addressed, from basic principles of biomaterials, organs and medical devices to advanced topics such as tissue engineering, surface engineering, sterilization techniques, 3D printing and drug delivery systems. Readers are also introduced to major concepts of surface modification techniques, and potential applications of different classes of biomaterials. Multiple-choice

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Questions at the end of every chapter will be helpful for students to test their understanding of each topic, with answers provided at the end of the book. Ultimately, this book offers a one-stop source of information on the essentials of biomaterials and engineering. It is useful both as an introduction and advanced reference on recent advances in the biomaterials field. Suitable readers include undergraduate and graduate students, especially those in Materials Science, Biomedical Engineering and Bioengineering.

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This book gives a fundamentally comprehensive introduction to most of the important biomaterials including ceramics, metals, and polymers.

A succinct introduction to the field of biomaterials engineering, packed with practical insights.

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