



Metals for Biomedical Devices (Woodhead Publishing Series in Biomaterials)

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Despite recent advances in medical devices using other materials, metallic implants are still one of the most commercially significant sectors of the industry. Given the widespread use of metals in medical devices, it is vital that the fundamentals and behaviour of this material are understood. Metals in biomedical devices reviews the latest techniques in metal processing methods and the behaviour of this important material.

Initial chapters review the current status and selection of metals for biomedical devices. Chapters in part two discuss the mechanical behaviour, degradation and testing of metals with specific chapters on corrosion, wear testing and biocompatibility of biomaterials. Part three covers the processing of metals for biomedical applications with chapters on such topics as forging metals and alloys, surface treatment, coatings and sterilisation. Chapters in the final section discuss clinical applications of metals such as cardiovascular, orthopaedic and new generation biomaterials.

With its distinguished editor and team of expert contributors, Metals for biomedical devices is a standard reference for materials scientists, researchers and engineers working in the medical devices industry and academia.

- Reviews the latest techniques in metal processing methods including surface treatment and sterilisation
- Examines metal selection for biomedical devices considering biocompatibility of various metals
- Assesses mechanical behaviour and testing of metals featuring corrosion, fatigue and wear

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