



Joining and Assembly of Medical Materials and Devices (Woodhead Publishing Series in Biomaterials)

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As medical devices become more intricate, with an increasing number of components made from a wide range of materials, it is important that they meet stringent requirements to ensure that they are safe to be implanted and will not be rejected by the human body. Joining and assembly of medical materials and devices provides a comprehensive overview of joining techniques for a range of medical materials and applications.

Part one provides an introduction to medical devices and joining methods with further specific chapters on microwelding methods in medical components and the effects of sterilization on medical materials and welded devices. Part two focuses on medical metals and includes chapters on the joining of shape memory alloys, platinum (Pt) alloys and stainless steel wires for implantable medical devices and evaluating the corrosion performance of metal medical device welds. Part three moves on to highlight the joining and assembly of medical plastics and discusses techniques including ultrasonic welding, transmission laser welding and radio frequency (RF)/dielectric welding. Finally, part four discusses the joining and assembly of biomaterial and tissue implants including metal-ceramic joining techniques for orthopaedic applications and tissue adhesives and sealants for surgical applications.

Joining and assembly of medical materials and devices is a technical guide for engineers and researchers within the medical industry, professionals requiring an understanding of joining and assembly techniques in a medical setting, and academics interested in this field.

- Introduces joining methods in medical applications including microwelding and considers the effects of sterilization on the resulting joints and devices
- Considers the joining, assembly and corrosion performance of medical metals including shape memory alloys, platinum alloys and stainless steel wires
- Considers the joining and assembly of medical plastics including multiple welding methods, bonding strategies and adhesives

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