



Orthopaedic Bone Cements (Woodhead Publishing Series in Biomaterials)

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Bone cements are widely used in orthopaedic applications to anchor implants to existing bone, reconstruct bone and deliver bioactive agents to the body. With an increasing number of bone cements available, it is vital that the correct material is selected for specific clinical procedures. Orthopaedic bone cements reviews the most recent research in this field.

Part one discusses the current uses of orthopaedic bone cements with chapters on such topics as hip replacements, vertebroplasty and wear particles and osteolysis. Part two reviews materials and types of cement such as acrylic, polymethylmethacrylate and calcium phosphate cements. Chapters in Part three address the mechanical properties of bone cements such as fracture toughness and dynamic creep. The final section examines methods to enhance the properties of bone cements with coverage of themes such as antibiotic loaded bone cements and bioactive cements.

With its eminent editor and multidisciplinary team of international contributors, Orthopaedic bone cements is an invaluable reference for materials scientists, medical researchers and all those involved in the development of bone cements for orthopaedic applications and joint replacement.

- Provides a review of recent research focussing on improving the mechanical and biological performance of bone cements
- Discusses the current applications of bone cements particularly in hip replacement, vertebroplasty and wear particles
- Reviews types of materials and acrylic, polymethylmethacrylate and calcium phosphate as types of cements

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