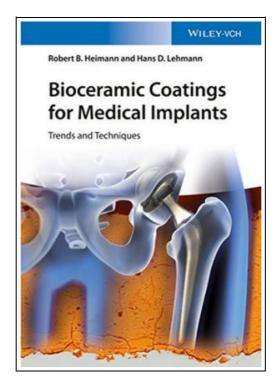
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Condition: New. Publisher/Verlag: Wiley-VCH | Trends and Techniques | Reflecting the progress in recent years, this book provides in-depth information on the preparation, chemistry, and engineering of bioceramic coatings for medical implants. It is authored by two renowned experts with over 30 years of experience in industry and academia, who know the potentials and pitfalls of the techniques concerned. Following an introduction to the principles of biocompatibility, they present the structures and properties of various bioceramics from alumina to zirconia. The main part of the work focuses on coating technologies, such as chemical vapor deposition, sol-gel deposition and thermal spraying. There then follows a discussion of the major interactions of bioceramics with bone or tissue cells, complemented by an overview of the in-vitro testing methods of the biomineralization properties of bioceramics. The text is rounded off by chapters on the functionalization of bioceramic coatings and a look at future trends. As a result, the authors bring together all aspects of the latest techniques for designing, depositing, testing, and implementing improved and novel bioceramic coating compositions, providing a full yet concise overview for beginners and professionals. | Preface XIGlossary XVII1 Bioceramics - A Historical Perspective 11.1 Alumina 11.2 Zirconia 31.3 Calcium Phosphates 4References 62 Socio-Economic Aspects and Scope of Bioceramic Materials and Biomedical Implants 112.1 Types of Biomaterial 112.2 The Growing Global and Regional Markets for Biomedical Implants 142.2.1 A Worldwide Need for Implants 142.2.2 Market Projections and Forecasts for Biomaterials and Biomedical Implants 172.2.2.1 Biomaterials 172.2.2.2 Large-Joint Reconstructive Implants (Hip and Knee) 192.2.2.3 Small Joints and Extremities Implants 202.2.2.4 Spinal Implants 212.2.5 Dental Implants 212.3 Role of Bioceramic Coatings in Arthroplasty 222.4 Ceramic Femoral Ball Heads 262.4.1 Mechanical and Functional Properties 262.4.2 Manufacturing of Ceramic Femoral Ball Heads 272.4.3 Discolouration of Zirconia by Ionising Radiation 30References 353 Fundamentals of Interaction of Bioceramics...



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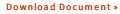
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