

1. Record Nr.	UNINA9910449861503321
Autore	Teoh Swee Hin
Titolo	Engineering materials for biomedical applications [[electronic resource] /] / Teoh Swee Hin
Pubbl/distr/stampa	Hackensack, N.J. ; ; Hong Kong, : World Scientific Pub., c2004
ISBN	1-281-87222-9 9786611872229 1-59124-983-X 981-256-222-2
Descrizione fisica	1 online resource (350 p.)
Collana	Biomaterials engineering and processing series ; ; v. 1
Disciplina	610 610.28
Soggetti	Biomedical materials Biomedical engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ENGINEERING MATERIALS FOR BIOMEDICAL APPLICATIONS; CONTENTS; Foreword; Preface; Acknowledgements; 1 Introduction to biomaterials engineering and processing - an overview (S. H. Teoh); 2 Durability of metallic implant materials (M. Sumita and S. H. Teoh); 3 Corrosion of metallic implants (D. J. Blackwood, K. H. W. Seah and S. H. Teoh); 4 Surface modification of metallic biomaterials (T. Hanawa); 5 Biorestorative materials in dentistry (A. U. J. Yap); 6 Bioceramics: an introduction (B. Ben-Nissan and G. Pezzotti); 7 Polymeric hydrogels (J. Li) 8 Bioactive ceramic-polymer composites for tissue replacement (M. Wang)9 Composites in biomedical applications (Z. M. Huang and S. Ramakrishna); 10 New methods and materials in prosthetics for rehabilitation of lower limb amputees (P. V. S. Lee); 11 Chitin-based biomaterials (E. Khor); Subject Index
Sommario/riassunto	The success of any implant or medical device depends very much on thebiomaterial used. Synthetic materials (such as metals, polymers andcomposites) have made significant contributions to many

established medical devices. The aim of this book is to provide a basic understanding on the engineering and processing aspects of biomaterials used in medical applications.
