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Nota di contenuto	Intro -- SURFACE COATINGS -- SURFACE COATINGS -- CONTENTS -- PREFACE -- Chapter 1STATE OF THE ART BIOACTIVETITANIUM IMPLANT SURFACES -- Abstract -- 1. Introduction -- 2. State of the Art CP Titanium Implant Surfaces -- 2.1. Fluoridated CP Titanium Surfaces -- Appendix - Fluoridated CP Titanium Surfaces -- SBF -- In Vitro -- In Vivo -- Clinic -- 2.2. Alkali-Heat Treated CP Titanium Surfaces -- Appendix - Alkali-Heat Treated CP Titanium Surfaces -- General -- SBF -- In Vitro -- In Vivo -- Clinic -- 2.3. Anodized CP Titanium Surfaces -- Appendix - Anodized CP Titanium Surfaces -- General -- SBF -- In Vitro -- In Vivo -- Clinic -- 2.4. Thin HA Sol-Gel Coated CP Titanium Surfaces -- Appendix - Thin HA Sol-Gel Coated CP Titanium Surfaces -- SBF -- In Vitro -- In Vivo -- Clinic -- 2.5. Proteins Covalently Immobilized to CP Titanium Surfaces -- Appendix - Proteins Covalently Immobilized to CP Titanium Surfaces -- In Vitro Peptides -- In Vitro Proteins -- In Vivo Peptides -- In Vivo Proteins -- Clinic -- 3. Conclusion -- References -- Chapter 2ANTIMICROBIAL SURFACE COATINGSIN PACKAGING APPLICATIONS -- Abstract -- 1. Introduction -- 2. Antimicrobial Packaging Materials -- 2.1. Food/ Packaging Interaction -- 2.2. Migration of Antimicrobial Substances -- 2.3. Antimicrobial Activity -- 2.3.1. Leachable Antimicrobials -- 2.3.2. Non-Leachable (Immobilized) Antimicrobials -- 3. Conclusion -- References -- Chapter 3ENVIRONMENTALLY FRIENDLY CONVERSIONCOATING

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Electrochemical Impedance Spectroscopy -- Conculusions -- References -- Chapter 4PRECISE SYNTHESIS OF AMPHIPHILIC POLYMERICNANO ARCHITECTURES UTILIZED BY METAL-CATALYZED LIVING RING-OPENING METATHESISPOLYMERIZATION (ROMP) --

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Sommario/riassunto

This book presents current research on thin films and coatings. The mechanical properties of films and coatings, which are highly affected by their microstructure and their adhesion to substrates, are reviewed. Furthermore, electronic semiconductor devices and optical coatings, which are the main applications benefiting from thin film construction are looked at. This book discusses antimicrobial surface coatings as promising applications of advanced active food packaging systems. Ways in which they effectively control the microbial contamination of various foodstuffs are analysed. Research that has been done in the last decade using ultrasonic waves for coating surfaces is also examined. Finally, since coatings and films mechanical properties are highly affected by their microstructure, and their adhesion to substrates, this book includes research on interface microstructure and the important role that bond formation plays on coatings and films.
