1. Record Nr. UNINA9910297019703321 Surface modification of magnesium and its alloys for biomedical **Titolo** applications. Volume 2: modification and coating techniques // edited by T. S. N. Sankara Narayanan, Il-Song Park and Min-Ho Lee Cambridge, England:,: Woodhead Publishing,, 2015 Pubbl/distr/stampa ©2015 **ISBN** 1-78242-083-5 Descrizione fisica 1 online resource (461 p.) Woodhead Publishing Series in Biomaterials;; Number 90 Collana Disciplina 671.7 Soggetti Metals - Finishing Metals - Finishing - Equipment and supplies Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Related titles; Surface Modification of Magnesium and its Alloys for Biomedical Applications; Copyright; Contents; List of contributors; Woodhead Publishing Series in Biomaterials; Part One -Chemical and physical modifications of magnesium and its alloys for biomedical applications; 1 - Fluoride conversion coatings for magnesium and its alloys for the biological environment; 1.1 Introduction; 1.2 Coating formation: Mechanism and characteristics;

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7.1 Introduction

## Sommario/riassunto

The development of biodegradable implants which can remain in the human body to fix a problem and subsequently dissolve, or be absorbed, consumed or excreted, without warranting a secondary surgery, is very appealing to scientists. Due to their excellent biocompatibility and biodegradability, magnesium implants provide a viable option many problems associated with permanent metallic implants such as, restenosis, thrombosis, permanent physical irritation, and inability to adapt to growth and changes in human body. Volume 2 of this important new book explores practical issues of magnesium and ma