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Degradation Of Implant Materials 2012

This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of

Degradation of Implant Materials | Noam Eliaz | Springer

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Degradation of implant materials (eBook, 2012) [WorldCat.org]

This book surveys the degradation of implant materials, reviewing in detail such failure mechanisms as corrosion, fatigue and wear, along with monitoring techniques. Surveys common implant biomaterials, as well as procedures for implant retrieval and analysis.

Degradation of implant materials (Book, 2012) [WorldCat.org]

Degradation of Implant Materials. ... femoral stems released between 1983 and 2012 was performed, and the flexural rigidity and length of the femoral trunnions were determined. ... of degradation ...

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Procedures for implant retrieval and failure analysis are presented. The degradation of a wide spectrum of materials is reviewed, from

several kinds of metals to various polymers and composites. A variety of medical devices is analyzed, including hip and knee prostheses, dental implants, permanent and absorbable stents, heart valves, inferior ...

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This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials.

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The degradation of a wide spectrum of materials is reviewed, from several kinds of metals to various polymers and composites. A variety of medical devices is analyzed, including hip and knee prostheses, dental implants, permanent and absorbable stents, heart valves, inferior vena cava filters, breast implants, ophthalmic implants, intrauterine ...

[NACE International. Degradation of Implant Materials](#)

Abstract. After roughly 100 years of controlled clinical use, the in vivo and in vitro degradation mechanisms of ceramic materials are still largely unknown. In bioinert ceramics such as alumina and zirconia used in orthopedics, crack propagation mechanisms are well known, but their interactions with other degradation mechanisms (low-temperature degradation, shocks, wear, dissolution, etc ...

[Degradation of Bioceramics | SpringerLink](#)

In this chapter, the degradation of dental implants is discussed. First, the dental implant system and the biological environment surrounding it are explained. Hydroxyapatite coating layer is sometimes fractured, causing loosening and infection, as discussed too.

[Degradation of Dental Implants | SpringerLink](#)

In this chapter, the degradation of dental implants is discussed. First, the dental implant system and the biological environment surrounding it are explained.

[Degradation of Dental Implants - ResearchGate](#)

Degradation of materials in biomedical applications can, in addition to purely chemical or electrochemical processes, be strongly influenced by mechanical/tribological processes. Therefore, tribocorrosion of Ti and Ti-based alloys is described. In addition, the role of the biological environment in the degradation process of Ti alloys is discussed.

Degradation of Titanium and Its Alloys | SpringerLink

This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of...

Degradation of Implant Materials by Noam Eliaz, Paperback ...

Background. Titanium (Ti) dominates as the material of choice for dental implant systems. Recently, titanium zirconium alloy (TiZr) and zirconia (ZrO₂) have emerged as alternative materials due to higher mechanical strength and lower corrosion susceptibility. Oral pathogenic bacteria can colonize Ti surfaces, leading to surface degradation, which has yet to be investigated on TiZr and ZrO₂.

Evaluation of oral microbial corrosion on the surface ...

Degradation products like ions and debris around implants are recognized as foreign bodies. As a result, immunologic processes are activated, and macrophages adhere to the material surface. Macrophages can generate active oxygen species, H₂O₂, reaching the surface of implants. In this way, titanium surface is hyperoxidized by H₂O₂, inducing the release of Ti ions [42].

Degradation Product - an overview | ScienceDirect Topics

With all the advancements and developments in the science and technology, the materials available for dental implants also improved. The choice of material for a particular implant application will generally be a compromise to meet many different required properties.

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