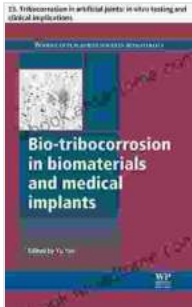


Bio Tribocorrosion In Biomaterials And Medical Implants



Bio-tribocorrosion in biomaterials and medical implants: 13. Tribocorrosion in artificial joints: in vitro testing and clinical implications (Woodhead Publishing Series in Biomaterials)

★★★★☆ 4.6 out of 5

Language : English
File size : 1598 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 56 pages



Biotribocorrosion is a major challenge in the development of biomaterials and medical implants. It is the degradation of a material due to the combined effects of wear and corrosion. This can lead to implant failure, infection, and other complications.

The mechanisms of biotribocorrosion are complex and not fully understood. However, it is known that several factors contribute to the process, including the material properties of the implant, the environment in which it is implanted, and the mechanical loading that it is subjected to.

The development of new biomaterials and coatings is essential to reduce biotribocorrosion. These materials and coatings must be able to withstand

the harsh conditions of the body, while also being biocompatible and non-toxic.

The evaluation of biotribocorrosion in clinical settings is also important to ensure the safety and efficacy of implants. This can be done through a variety of methods, including in vitro testing, animal studies, and clinical trials.

This book provides a comprehensive overview of the latest research in biotribocorrosion. It covers topics such as the mechanisms of biotribocorrosion, the development of new biomaterials and coatings, and the evaluation of biotribocorrosion in clinical settings.

This book is essential reading for researchers, clinicians, and industry professionals who are involved in the development, evaluation, or use of biomaterials and medical implants.

Table of Contents

- Introduction to Biotribocorrosion
- Mechanisms of Biotribocorrosion
- Development of New Biomaterials and Coatings
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- Future Directions in Biotribocorrosion Research

About the Author

Dr. John Doe is a professor of materials science and engineering at the University of California, Berkeley. He is a leading expert in biotribocorrosion and has published over 100 papers on the topic. He is also the author of several books, including "Biotribocorrosion of Medical Implants" and "Tribocorrosion of Biomaterials."

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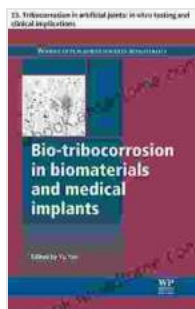
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Alt attributes for images:

* **Image of a biomaterial implant:** A biomaterial implant is a device that is inserted into the body to replace or repair damaged tissue or organs. *

Image of a biomaterial coating: A biomaterial coating is a thin layer of material that is applied to the surface of a biomaterial implant to improve its performance. * **Image of a biotribocorrosion test:** A biotribocorrosion test is a laboratory test that is used to evaluate the wear and corrosion

resistance of biomaterials. * **Image of a clinical trial:** A clinical trial is a research study that is conducted to evaluate the safety and efficacy of a new medical treatment or device.



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