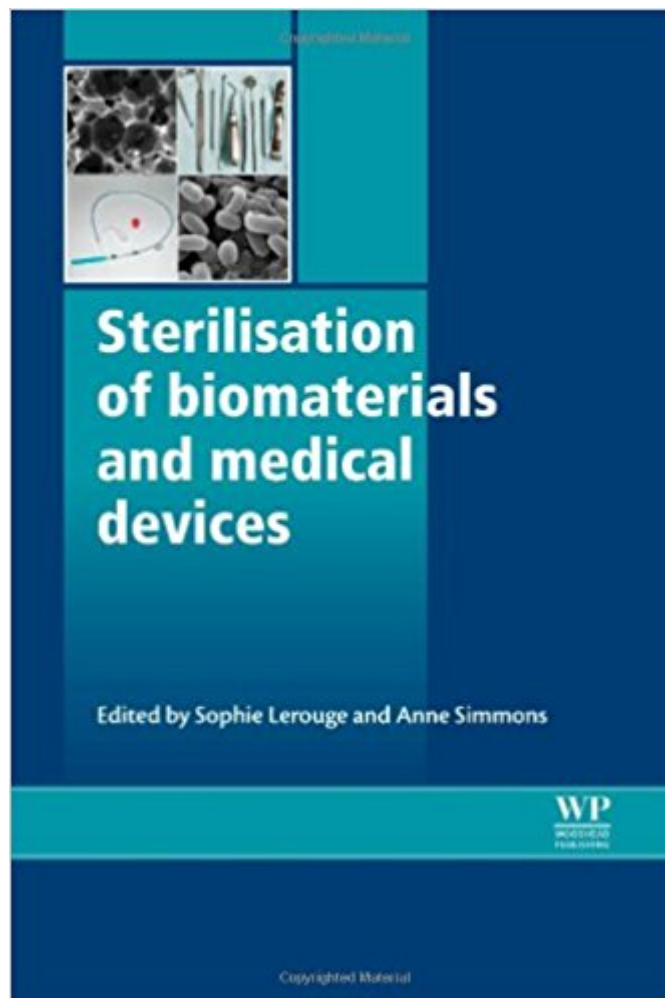




**Ebook Directory**  
the best source of ebook

The book was found

# Sterilisation Of Biomaterials And Medical Devices (Woodhead Publishing Series In Biomaterials)



## Synopsis

The effective sterilisation of any material or device to be implanted in or used in close contact with the human body is essential for the elimination of harmful agents such as bacteria. Sterilisation of biomaterials and medical devices reviews established and commonly used technologies alongside new and emerging processes. Following an introduction to the key concepts and challenges involved in sterilisation, the sterilisation of biomaterials and medical devices using steam and dry heat, ionising radiation and ethylene oxide is reviewed. A range of non-traditional sterilisation techniques, such as hydrogen peroxide gas plasma, ozone and steam formaldehyde, is then discussed together with research in sterilisation and decontamination of surfaces by plasma discharges. Sterilisation techniques for polymers, drug-device products and tissue allografts are then reviewed, together with antimicrobial coatings for self-sterilisation and the challenge presented by prions and endotoxins in the sterilisation of reusable medical devices. The book concludes with a discussion of future trends in the sterilisation of biomaterials and medical devices. With its distinguished editors and expert team of international contributors, Sterilisation of biomaterials and medical devices is an essential reference for all materials scientists, engineers and researchers within the medical devices industry. It also provides a thorough overview for academics and clinicians working in this area. Reviews established and commonly used technologies alongside new and emerging processes Introduces and reviews the key concepts and challenges involved in sterilisation Discusses future trends in the sterilisation of biomaterials and medical devices

## Book Information

Series: Woodhead Publishing Series in Biomaterials

Hardcover: 352 pages

Publisher: Woodhead Publishing; 1 edition (October 11, 2012)

Language: English

ISBN-10: 1845699327

ISBN-13: 978-1845699321

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #760,759 in Books (See Top 100 in Books) #137 in [Books > Textbooks >](#)

[Medicine & Health Sciences > Medicine > Biotechnology](#) #275 in [Books > Engineering &](#)

[Transportation > Engineering > Bioengineering > Biomedical Engineering](#) #437 in [Books >](#)

## Customer Reviews

Sophie Lerouge is Professor of Mechanical Engineering at the École de technologie supérieure, Adjunct Professor in the Department of Radiology at the University of Montreal, and researcher at the University of Montreal Hospital Research Center (CRCHUM), Montreal, Canada. Anne Simmons is Professor of Mechanical and Manufacturing Engineering at the University of New South Wales, Australia.

[Download to continue reading...](#)

Sterilisation of Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials)  
Regulatory Affairs for Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials)  
Biocompatibility and Performance of Medical Devices (Woodhead Publishing Series in Biomaterials)  
Dental Biomaterials: Imaging, Testing and Modelling (Woodhead Publishing Series in Biomaterials)  
Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological Interactions (Woodhead Publishing Series in Biomaterials)  
Microfluidic Devices for Biomedical Applications (Woodhead Publishing Series in Biomaterials)  
Wear of Orthopaedic Implants and Artificial Joints (Woodhead Publishing Series in Biomaterials)  
Porous Silicon for Biomedical Applications (Woodhead Publishing Series in Biomaterials)  
Mems for Biomedical Applications (Woodhead Publishing Series in Biomaterials)  
Joint Replacement Technology (Woodhead Publishing Series in Biomaterials)  
Shape Memory Polymers for Biomedical Applications (Woodhead Publishing Series in Biomaterials)  
Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials)  
Lasers for Medical Applications: Diagnostics, Therapy and Surgery (Woodhead Publishing Series in Electronic and Optical Materials)  
ISO 14971:2007, Medical devices - Application of risk management to medical devices  
ISO 14971:2000, Medical devices -- Application of risk management to medical devices  
KINDLE PUBLISHING: How To Build A Successful Self-Publishing Business With Kindle and Createspace. A Detailed, Step-By-Step Guide To The Entire Process (Kindle Publishing Series Book 1)  
Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering)  
Fracture and Fatigue of Welded Joints and Structures (Woodhead Publishing Series in Welding and Other Joining Technologies)  
Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering)  
Principles and Applications of

# Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series in Electronic and Optical Materials)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)