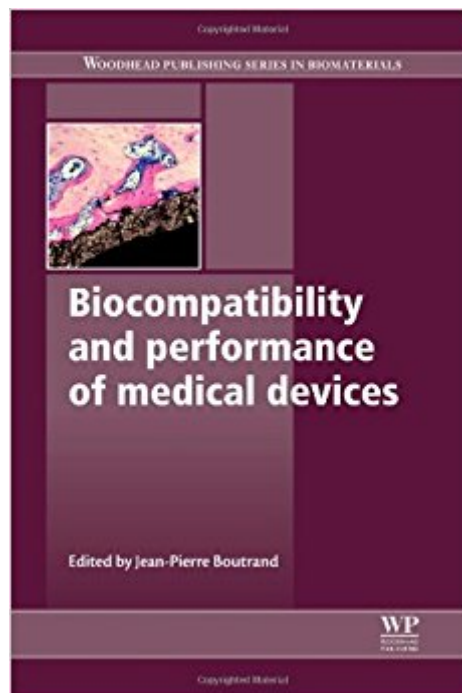




**Ebook Directory**  
the best source of ebook

The book was found

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



## Synopsis

Implant and device manufacturers are increasingly facing the challenge of proving that their products are safe and biocompatible, and that they will perform as expected. Biocompatibility and performance of medical devices provides an essential guide to the performance analysis of these vital devices. Part one introduces the key concepts and challenges faced in relation to biocompatibility in medical devices, with consideration of biological safety evaluation planning and biomechanical and biochemical compatibility in innovative biomaterials. Part two goes on to discuss the evaluation and characterisation of biocompatibility in medical devices. Topics covered include material and chemical characterisation, allowable limits for toxic leachables, in vivo and in vitro testing and blood compatibility assessment. Testing and interpreting medical device performance is the focus of part three, with chapters describing preclinical performance studies for bone, dental and soft tissue implants, and mechanical testing of soft and hard tissue implants. Part four provides information on the regulation of medical devices in the European Union, Japan and China, and the book concludes with part five, a review of histopathology principles for biocompatibility and performance studies. With its distinguished editor and international team of expert contributors, Biocompatibility and performance of medical devices is a vital tool for all those involved in the research, design, production and application of medical devices, including research directors, production companies and medical regulatory agencies, as well as industry professionals and academics. Examines the key concepts and challenges faced in relation to biocompatibility in medical devices. Discusses evaluation and characterisation issues, including material and chemical characterization, allowable limits for toxic leachables, in vivo and in vitro testing, and blood compatibility assessment. Delivers a comprehensive overview of testing and interpreting medical device performance.

## Book Information

Series: Woodhead Publishing Series in Biomaterials

Hardcover: 544 pages

Publisher: Woodhead Publishing; 1 edition (November 9, 2012)

Language: English

ISBN-10: 0857090704

ISBN-13: 978-0857090706

Product Dimensions: 6.4 x 1.4 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,581,698 in Books (See Top 100 in Books) #72 in [Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies](#) #113 in [Books > Medical Books > Medicine > Reference > Instruments & Supplies](#) #439 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology](#)

## Customer Reviews

Multiple authors have come together to present their views on the best options, the best techniques and the optimal methods of interpretation of data. Expertly assembled by Jean-Pierre Boutrand the contents of this book will allow the reader to attain an insight into the complexities of this testing arena., Professor David Williams, Wake Forest Baptist Medical Center, USA (from the Foreword)

Jean-Pierre Boutrand is General Manager and Scientific Director for the European division of NAMSA (the world leading medical device evaluation company). Dr Boutrand has been involved in more than 100 public presentations and publications on topics related to medical device evaluation and is registered as an expert on the biological safety of medical devices for ANSM (the French agency for the safety of health products).

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

Biocompatibility and Performance of Medical Devices (Woodhead Publishing Series in Biomaterials) Regulatory Affairs for Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Sterilisation of Biomaterials and 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) Memes 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) Biological Performance of Materials: Fundamentals of Biocompatibility, Fourth Edition

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 Wound Healing Biomaterials - Volume 2: Functional Biomaterials 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)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)