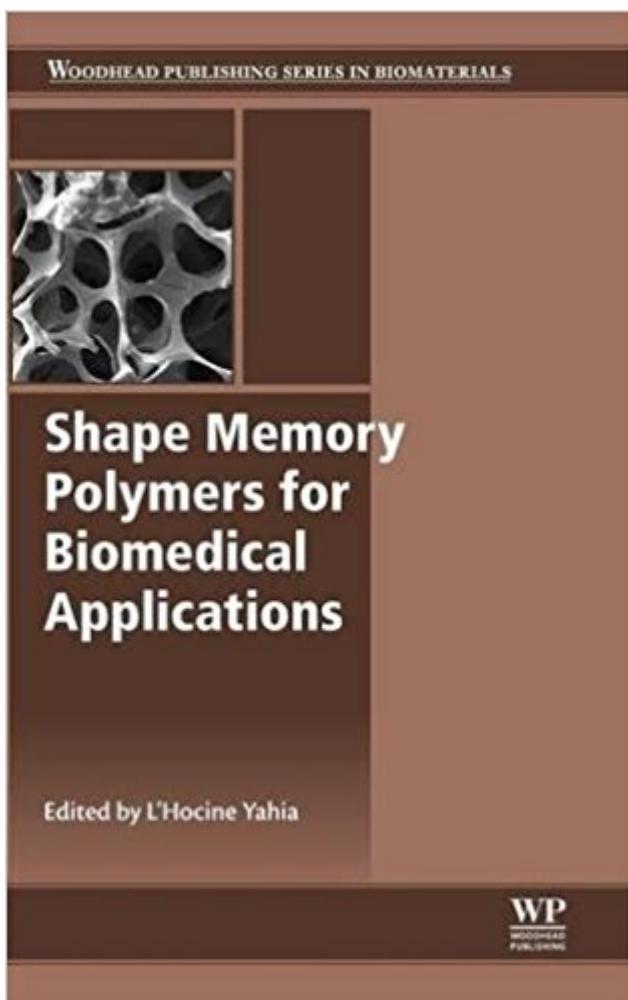


The book was found

# Shape Memory Polymers For Biomedical Applications (Woodhead Publishing Series In Biomaterials)



## Synopsis

Shape memory polymers (SMPs) are an emerging class of smart polymers which give scientists the ability to process the material into a permanent state and predefine a second temporary state which can be triggered by different stimuli. The changing chemistries of SMPs allows scientists to tailor important properties such as strength, stiffness, elasticity and expansion rate. Consequently SMPs are being increasingly used and developed for minimally invasive applications where the material can expand and develop post insertion. This book will provide readers with a comprehensive review of shape memory polymer technologies. Part 1 will discuss the fundamentals and mechanical aspects of SMPs. Chapters in part 2 will look at the range of technologies and materials available for scientific manipulation whilst the final set of chapters will review applications. Reviews the fundamentals of shape memory polymers with chapters focussing on the basic principles of the materialsComprehensive coverage of design and mechanical aspects of SMPsExpert analysis of the range of technologies and materials available for scientific manipulation

## Book Information

Series: Woodhead Publishing Series in Biomaterials

Hardcover: 326 pages

Publisher: Woodhead Publishing; 1 edition (April 1, 2015)

Language: English

ISBN-10: 0857096982

ISBN-13: 978-0857096982

Product Dimensions: 6 x 0.8 x 9 inches

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

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,788,497 in Books (See Top 100 in Books) #104 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #172 in Books > Medical Books > Medicine > Reference > Instruments & Supplies #1089 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles

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

Shape Memory Polymers for Biomedical Applications (Woodhead Publishing Series in Biomaterials)  
Porous Silicon for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Mems for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Microfluidic Devices for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Regulatory Affairs for

Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Dental Biomaterials: Imaging, Testing and Modelling (Woodhead Publishing Series in Biomaterials) Sterilisation of Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological Interactions (Woodhead Publishing Series in Biomaterials) Drawing Animals Shape by Shape: Create Cartoon Animals with Circles, Squares, Rectangles & Triangles (Drawing Shape by Shape series) Memory Exercises: Memory Exercises Unleashed: Top 12 Memory Exercises To Remember Work And Life In 24 Hours With The Definitive Memory Exercises Guide! (memory exercises, memory, brain training) Wear of Orthopaedic Implants and Artificial Joints (Woodhead Publishing Series in Biomaterials) Joint Replacement Technology (Woodhead Publishing Series in Biomaterials) Biocompatibility and Performance of Medical Devices (Woodhead Publishing Series in Biomaterials) Memory Training: Train your brain to improve your memory (Unlimited Memory, Mental Health, Memory Techniques, Education & Reference, Study Skills, Memory Improvement Book 1) Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series) Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering) (Bioengineering & Biomedical Engineering (Paperback)) Introduction to Biomaterials: Basic Theory with Engineering Applications (Cambridge Texts in Biomedical Engineering) Principles and Applications of Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series in Electronic and Optical Materials) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Advances in Wrought Magnesium Alloys: Fundamentals of Processing, Properties and Applications (Woodhead Publishing Series in Metals and Surface Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)