

Springer

2nd
edition2nd ed. 2021, XII, 200 p.
104 illus., 60 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-35875-4

£ 99,99 | CHF 130,00 | 109,99 € |

120,99 € (A) | 117,69 € (D)

Available

Discount group

Standard (0)

Product category

Professional book

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ISBN 978-3-030-35877-8

Life Sciences : Regenerative Medicine/Tissue Engineering

Bártolo, Paulo Jorge, Bidanda, Bopaya (Eds.)

Bio-Materials and Prototyping Applications in Medicine

- Summarizes state-of-the-art research in rapid prototyping of biomaterials for medical applications
- Provides a wide variety of examples of medical applications using rapid prototyping, including tissue engineering, dental applications, and bone replacement
- Includes four new chapters, as well as extensive updates to the original ten chapters

This second edition maintains a focus on integrated biomaterials, computer-aided design, and physical prototyping techniques as examples of the materials and applications that are found in medical environments. All original chapters, written by renowned experts in the field, have been updated along with the addition of four new chapters on: Smart insoles Medical applications of additive manufacturing Additive manufacturing in craniofacial applications Additive manufacturing in hearing aids This wide-ranging treatise on biomaterials and prototyping applications in medicine also focuses on solid freeform fabrication, rapid prototyping, layered manufacturing, and computer-aided design in the development of prosthetic devices. This book is a must-have for bioengineers seeking a comprehensive overview of this important subject and examples of medical applications, as well as researchers and academics in the same field.

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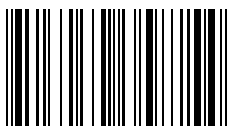
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