

Click link:

[Biomedical Implants: Materials, Design, and Manufacturing 1st Edition](#)

"Biomedical Implants: Materials, Design, and Manufacturing," authored by renowned experts in the field, is an essential resource for students, researchers, and professionals involved in biomaterials and biomedical engineering. Published by Wiley in 2023, this comprehensive first edition delves into the intricate world of biomedical implants, examining their materials, design, and manufacturing processes in depth. With ISBN 978-1119653251, the book offers a thorough exploration of the various types of implants, encompassing orthopedic, dental, and cardiovascular devices. It presents a detailed analysis of material selection, critical for ensuring biocompatibility and functionality, emphasizing innovative developments in polymeric, metallic, and ceramic materials. Readers will discover insights into the design methodologies that enhance the performance and longevity of implants, backed by robust engineering principles. The book further explores cutting-edge manufacturing technologies, including additive manufacturing and surface modification techniques, which play a vital role in the production of next-generation implants. Featuring numerous case studies and real-world applications, this text not only illustrates complex concepts but also bridges the gap between theoretical knowledge and practical implementation. Ideal for both newcomers and seasoned professionals, "Biomedical Implants" equips readers with the knowledge needed to navigate the rapidly evolving landscape of biomedical device development. This indispensable guide to the design and manufacturing of implants is a must-have reference for anyone dedicated to advancing the field of medical technology, fostering innovation and improving patient outcomes through superior implant solutions.