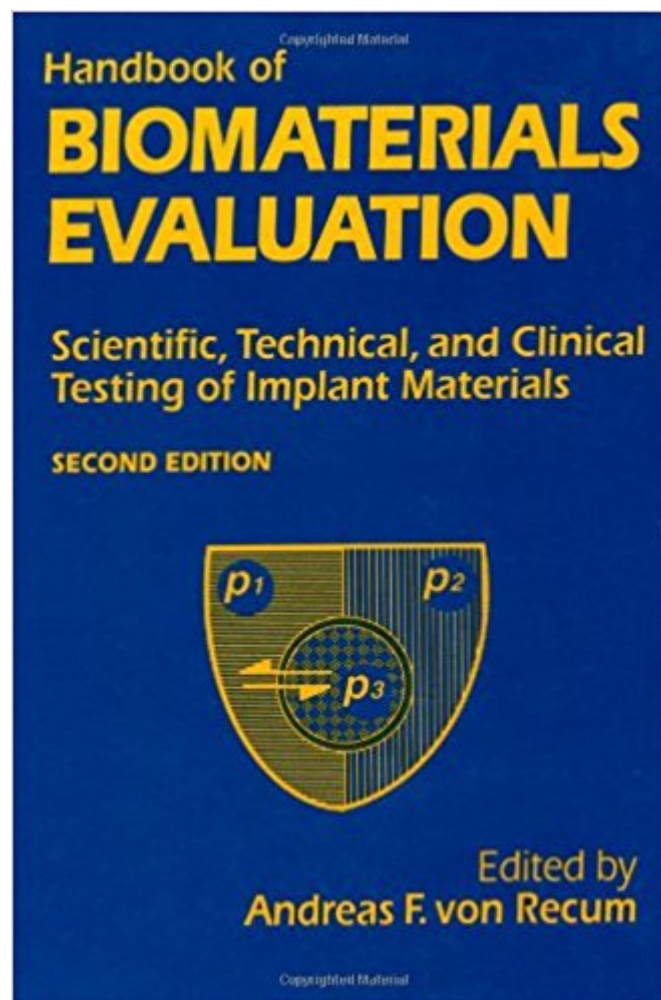




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Handbook Of Biomaterials Evaluation: Scientific, Technical And Clinical Testing Of Implant Materials, Second Edition



Synopsis

This handbook addresses the needs of those who are involved in inventing, developing, and testing implants and are concerned about the interactions between biomaterial and body tissue. The authors explore the physical, chemical, mechanical and regulatory considerations of synthetic materials used in surgical and implant procedures, and how these factors impact the latest developments and new approaches. This updated edition provides the biomaterials professional with necessary information on a range of issues, including bulk characterization, surface evaluations, toxicological evaluations, in vitro methods for safety evaluation, methods for evaluating materials in special applications, surgical considerations, systems implantology, soft and hard tissue history, regulatory aspects, and clinical trials.

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Customer Reviews

My first introduction to this book was in a biophysics course at University of Buffalo in 1991. Von Recum's text was assigned reading and in my opinion remains a must read for anyone working in the world of biomaterials science. This book is an in-depth and informative review of practically every aspect of biologically implantable materials. It covers a spectrum of topics beginning with basic scientific principles of material science and biocompatibility, through many aspects of experimental design, and on to issues regarding FDA regulations and approval for biomaterials research. Von Recum has edited a book that is useful and extremely informative to students, clinicians, researchers, and research administrators alike. I highly recommend this book as a valuable

reference for just about anyone in the biomedical and scientific community.

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