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Edition by William E. Lee III (Author)

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Biomedical engineering principles: An introduction to fluid, heat, and mass transport processes (biomedical engineering and instrumentation, volume 2) : Marcel Dekker, Inc. New York, 1976, 448 pages, illus., \$36.50. Abbrecht, Peter H.

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The maturing of the baby boomers has heralded the age of the bionic man, who is

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literally composed of various replacement organs or biomechanical parts. This book provides a comprehensive and up-to-date scientific source of biomedical engineering principles of replacement parts and assist devices for the bionic man. It contains topics ranging from biomechanical, biochemical, rehabilitation, and tissue engineering principles, to applications in cardiovascular, visual, auditory, and neurological systems, as well as recent advances in transplant, gene therapy, and stem cell research.

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Biomedical engineers need to understand the wide range of topics that are covered in this text, including basic mathematical modeling; anatomy and physiology; electrical engineering, signal processing and instrumentation; biomechanics; biomaterials science and tissue engineering; and medical and engineering ethics. Enderle and

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Introduction to Clinical Engineering focuses on the application of engineering practice within the healthcare delivery system, often defined as clinical engineering. Readers will explore the fundamental concepts integral to the support of healthcare technology to advance medical care. The primary mission of clinical engineers is the utilization of medical devices, software, and systems to deliver safe and effective patient care throughout technology ' s lifecycle. This unique and interdisciplinary workforce is part of the healthcare team and serves as the intersection between engineering and medicine. This book is aimed at practitioners, managers, students, and educators to serve as a resource that offers a

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Principles of the applications of engineering principles, regulatory compliance, lifecycle planning, systems thinking, risk analysis, and resource management in healthcare. This book is an invaluable tool for healthcare technology management (HTM) professionals and can serve as a guide for students to explore the profession in depth. Offers readers an in-depth look into the support and implementation of existing medical technology used for patient care in a clinical setting Provides insights into the clinical engineering profession, focusing on engineering principles as applied to the US healthcare system Explores healthcare technology, hospital and systems safety, information technology and interoperability with medical devices, clinical facilities management, as well as human resource management

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engineers, physicists, sport scientists, and physiologists who wish to update their knowledge of biomechanical and biomedical principles and their applications to sports. The book can be used in a one-semester Senior or Graduate-level course in Biomechanics, Biomedical Engineering, Sports Technology, Sports Medicine, or Exercise Physiology. In addition, it will be of value to interested athletic laypersons who enjoy watching or participating in sports such as golf, tennis, softball, football, soccer, and basketball.

Presenting a bird's eye view of the important components in biomedical engineering, this book explores how bioengineering has emerged as an important aid to diagnosis, therapy, and rehabilitation. The author discusses the application of electrical, mechanical, chemical, optical and other engineering principles to understand,

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modify or control biological systems. He covers the design and manufacture of products for monitoring physiological functions, assisting in diagnoses, assessing prognoses, and helping in treatment of patients. It also provides a glimpse of emerging trends in biomedical engineering like telemedicine and the wider use of computers in health care.

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