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Author Joseph Dyro has been awarded the Association for the Advancement of Medical Instrumentation (AAMI) Clinical/Biomedical Engineering Achievement Award which recognizes individual excellence and achievement in the clinical engineering and biomedical engineering fields. He has also been awarded the American College of Clinical Engineering 2005 Tom O'Dea Advocacy Award. As the biomedical engineering field expands throughout the world, clinical engineers play an evermore important role as the translator between the worlds of the medical, engineering, and business professionals. They influence procedure and policy at research facilities, universities and private and government agencies including the Food and Drug Administration and the World Health Organization. Clinical Engineers were key players in calming the hysteria over electrical safety in the 1970's and Y2K at the turn of the century and continue to work for medical safety. This title brings together all the important aspects of Clinical Engineering. It provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world. \* Clinical Engineers are the safety and quality facilitators in all medical facilities.

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Handbook of Biomedical Engineering covers the most important used systems and materials in biomedical engineering. This book is organized into six parts: Biomedical Instrumentation and Devices, Medical Imaging, Computers in Medicine, Biomaterials and Biomechanics, Clinical Engineering, and Engineering in Physiological Systems Analysis. These parts encompassing 27 chapters cover the basic principles, design data and criteria, and applications and their medical and/or biological relationships. Part I deals with the principles, mode of operation, and uses of various biomedical instruments and devices, including transducers, electrocardiograph, implantable

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electrical devices, biotelemetry, patient monitoring systems, hearing aids, and implantable insulin delivery systems. Parts II and III describe the basic principle of medical imaging devices and the application of computers in medicine, particularly in the fields of data management, critical care, clinical laboratory, radiology, artificial intelligence, and research. Part IV focuses on the application of biomaterials and biomechanics in orthopedic and accident investigation, while Part V considers the major functions of clinical engineering. Part VI provides the principles and application of mathematical models in physiological systems analysis. This book is valuable as a general reference for courses in a biomedical engineering curriculum.

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