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Nota di contenuto	Introduction to biomedical instrumentation -- Medical Devices and Instrumentation -- Clinical Engineering and Healthcare Technology Management -- Laboratory Devices. Review Practice Problems and Future Directions.
Sommario/riassunto	This textbook offers a structured and in-depth exploration of biomedical instrumentation, bridging theoretical principles with real-world applications. It provides an overview about the historical evolution of biomedical engineering, illustrating how the field has developed through scientific discovery, technological innovation, and translational applications in medicine. The book focuses on medical devices in healthcare institutions, exploring their components, technical characteristics, clinical applications, regulatory considerations, and emerging trends such as miniaturization, smart devices, and AI integration. Designed primarily for students and researchers, the book also serves as a valuable resource for professionals in biomedical engineering, clinical engineering, and healthcare technology management. A wealth of practical examples, case studies, and multiple choice questions make this book a valuable

read for students and professionals working in this field.

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