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Understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special

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attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive

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addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

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This book shares the knowledge of active and prestigious worldwide researchers and scholars in the field of healthcare monitoring as authors investigate historical developments, summarize latest advancements, and envision future prospects on wearable, attachable, and invisible devices that monitor diverse physiological information. The coverage of the book spans multiple disciplines, from biomechanics, to bioelectricity, biochemistry, biophysics and biomaterials. There is

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also wide coverage of various physical and chemical quantities such as electricity, pressure, flow, motion, force, temperature, gases, and biomarkers. Each chapter explores the background of a specific monitoring device, as well as its physical and chemical principles and instrumentation, signal processing and data analysis, achieved outcomes and application scenarios, and future research topics. There are chapters on: Electrocardiograms, electroencephalograms, and electromyograms Measurement of flow phenomenon Latest wearable technologies for the quantification of human motion Various forms of wearable thermometers Monitoring of gases and chemical substances produced during metabolism...and more! This book is appropriate and

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Accessible for students and scientists, as well as researchers in biomedical engineering, computer engineers, healthcare entrepreneurs, administrative officers, policy makers, market vendors, and healthcare personnel. It helps to provide us with insights into future endeavors, formulate innovative businesses and services, and will help improve people ' s health and quality of life.

Sensors are the eyes, ears, and more, of the modern engineered product or system- including the living human organism. This authoritative reference work, part of Momentum Press's new Sensors Technology series, edited by noted sensors expert, Dr. Joe Watson, will offer a complete review of all sensors and their associated instrumentation

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systems now commonly used in modern medicine. Readers will find invaluable data and guidance on a wide variety of sensors used in biomedical applications, from fluid flow sensors, to pressure sensors, to chemical analysis sensors. New developments in biomaterials- based sensors that mimic natural bio-systems will be covered as well. Also featured will be ample references throughout, along with a useful Glossary and symbols list, as well as convenient conversion tables.

The Laboratory Computer: A Practical Guide for Physiologists and Neuroscientists introduces the reader to both the basic principles and the actual practice of recording physiological signals using the computer. It describes the basic

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operation of the computer, the types of transducers used to measure physical quantities such as temperature and pressure, how these signals are amplified and converted into digital form, and the mathematical analysis techniques that can then be applied. It is aimed at the physiologist or neuroscientist using modern computer data acquisition systems in the laboratory, providing both an understanding of how such systems work and a guide to their purchase and implementation. The key facts and concepts that are vital for the effective use of computer data acquisition systems A unique overview of the commonly available laboratory hardware and software, including both commercial and free software A practical guide to

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designing one's own or choosing
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