

Electronic Portable Instruments

Design and Applications

With the availability of advanced technologies, digital systems, and communications, portable instruments are rapidly evolving from simple, stand-alone, low-accuracy measuring instruments to complex, multifunctional, network integrated, high-performance digital devices with advanced interface capabilities. The relatively brief treatments these instruments receive in many books are no longer adequate. Designers, engineers and scientists need a comprehensive reference dedicated to electronic portable instruments that explains the state-of-the-art and future directions.

Electronic Portable Instruments: Design and Applications introduces the basic measurement and instrumentation concepts, describes the operating principles, and discusses the typical specifications of three main groups of portable instruments:

- Portable and handheld instruments built for specific applications
- Intelligent sensor-based devices with few components and dedicated features, such as implantable medical devices
- Portable data systems containing fluid sensors and supporting mechanisms, but equipped with advanced communications capabilities, such as vibration and torque measurements, and tracking systems

The author discusses sensors suitable for these instruments, addresses how components are selected, and clearly shows that instrument design centers on trade-offs between costs, performance, size and weight, power consumption, interface options, ruggedness, and the ability to operate in a range of environments. A multitude of tables, formulas, and figures – many in full color – enhance the presentation. Numerous examples of applications demonstrate the current diversity of these devices and point the way to future trends in development and applications.

Features

- Provides the first comprehensive reference focused entirely on electronic portable measurement instruments
- Describes the concepts, operating principles, typical specifications, and limitations of portable instruments
- Discusses design and construction considerations, including power supplies, operator interfaces, and software aspects
- Highlights trends and emerging international standards
- Suggests guidance for research and development

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BOOK JACKET **American Book Publishing Record** ,2004 **Design of Early Warning and Predictive Source-water Monitoring Systems** W. M. Grayman,Rolf A. Deininger,Richard M. Males,AWWA Research Foundation,2001

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Analog Circuit Design Rudy J. van de Plassche, Johan Huijsing, Willy M.C. Sansen, 2013-03-09 Today digital signal processing systems use advanced CMOS technologies requiring the analog to digital converter to be implemented in the same digital technology Such an implementation requires special circuit techniques Furthermore the susceptibility of converters to ground bounce or digital noise is an important design criterion In this part different converters and conversion techniques are described that are optimized for receiver applications Part II Sensor and Actuator Interfaces interfaces for sensors and actuators shape the gates through which information is acquired from the real world into digital information systems and vice versa The interfaces should include analog signal conditioning analog to digital conversion digital bus interfaces and data acquisition networks To simplify the use of data acquisition systems additional features should be incorporated like self test and calibration

Nuclear Science Abstracts ,1974

Medical Instrument Design and Development Claudio Becchetti, Alessandro Neri, 2013-05-20 This book explains all of the stages involved in developing medical devices from concept to medical approval including system engineering bioinstrumentation design signal processing electronics software and ICT with Cloud and e Health development Medical Instrument Design and Development offers a comprehensive theoretical background with extensive use of diagrams graphics and tables around 400 throughout the book The book explains how the theory is translated into industrial medical products using a market sold Electrocardiograph disclosed in its design by the GammaCardio Soft manufacturer The sequence of the chapters reflects the product development lifecycle Each chapter is focused on a specific University course and is divided into two sections theory and implementation The theory sections explain the main concepts and principles which remain valid across technological evolutions of medical instrumentation The Implementation sections show how the theory is translated into a medical product The Electrocardiograph ECG or EKG is used as an example as it is a suitable device to explore to fully understand medical instrumentation since it is sufficiently simple but encompasses all the main areas involved in developing medical electronic equipment Key Features Introduces a system level approach to product design Covers topics such as bioinstrumentation signal processing information theory electronics software firmware telemedicine e Health and medical device certification Explains how to use theory to implement a market product using ECG as an example Examines the design and applications of main medical instruments Details the additional know how required for product implementation business context system design project management intellectual property rights product life cycle etc Includes an accompanying website with the design of the certified ECG product <http://www.gammacardiosoft.it/book> www.gammacardiosoft.it/book a Discloses the details of a marketed ECG Product from GammaCardio Soft compliant with the ANSI standard AAMI EC 11 under open

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