

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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Electronic Portable Instruments Design And Applications

Victor M. Corman



Electronic Portable Instruments Design And Applications:

Embracing the Tune of Appearance: An Mental Symphony within **Electronic Portable Instruments Design And Applications**

In a global used by monitors and the ceaseless chatter of immediate connection, the melodic beauty and mental symphony developed by the written term often disappear into the background, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Electronic Portable Instruments Design And Applications** a wonderful literary prize full of raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden songs and profound impact resonating within each cautiously constructed phrase. Within the depths with this moving analysis, we shall investigate the book is central harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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