



Wireless Sensors and Instruments: Networks, Design, and Applications

Halit Eren

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Advances such as 3-G mobile communications networks demonstrate the increasing capability of high-quality data transmission over wireless media. Adapting wireless functionality into instrument and sensor systems endows them with unmatched flexibility, robustness, and intelligence. *Wireless Sensors and Instruments: Networks, Design, and Applications* explains the principles, state-of-the-art technologies, and modern applications of this burgeoning field.

From underlying concepts to practical applications, this book outlines all the necessary information to plan, design, and implement wireless instrumentation and sensor networks effectively and efficiently. The author covers the basics of instruments, measurement, sensor technology, communication systems, and networks along with the theory, methods, and components involved in digital and wireless instruments. Placing these technologies in context, the book also examines the principles, components, and techniques of modern communication systems followed by network standards, protocols, topologies, and security.

Building on these discussions, the book uses examples to illustrate the practical aspects of constructing sensors and instruments. Finally, the author devotes the closing chapter to applications in a broad array of fields, including commercial, human health, and consumer products applications.

Filled with up-to-date information and thorough coverage of fundamentals, *Wireless Sensors and Instruments: Networks, Design, and Applications* supplies critical, hands-on tools for efficiently, effectively, and immediately implementing advanced wireless systems.



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