



## **Industrial Wireless Sensor Networks: Monitoring, Control and Automation (Woodhead Publishing Series in Electronic and Optical Materials)**

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# Industrial Wireless Sensor Networks: Monitoring, Control and Automation (Woodhead Publishing Series in Electronic and Optical Materials)

## Industrial Wireless Sensor Networks: Monitoring, Control and Automation (Woodhead Publishing Series in Electronic and Optical Materials)

Industrial Wireless Sensor Networks: Monitoring, Control and Automation explores the explosive growth that has occurred in the use of wireless sensor networks in a variety of applications during the last few years. As wireless technology can reduce costs, increase productivity, and ease maintenance, the book looks at the progress in standardization efforts regarding reliability, security, performance, power consumption, and integration.

Early sections of the book discuss issues such as media access control (MAC), antenna design and site survey, energy harvesting, and explosion-proof design. Subsequent sections present WSN standards, including ISA100, ZigBee™, Wifi™, WirelessHART™ and 6LoWPAN, and the applications of WSNs in the oil and gas, chemical, food, and nuclear power industries.

- Reviews technologies and standards for industrial wireless sensor networks
- Considers particular applications for the technology and their ability to reduce costs, increase productivity, and ease maintenance
- Focuses on industry needs and standardization efforts regarding reliability, security, performance, power consumption, and integration.

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