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Wireless Sensor Networks: Technology and Applications

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Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios. By the time you're halfway through this...

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Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios. By the time you're halfway through this fast-paced, hands-on guide, you'll have built a series of useful projects, including a complete ZigBee wireless network that delivers remotely sensed data.

[Building Wireless Sensor Networks Using Arduino](#)

XBee offers a great range of low-power wireless solutions that are easy to work with, by taking all of the complexity of wireless (mesh) networking out of your hands and letting you focus on what to send without worrying about the how. Building wireless sensor networks is cost-effective as well as efficient as it will be done with Arduino support.

**Building Wireless Sensor Networks by Robert Faludi**

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Building Wireless Sensor Networks: Application to Routing and Data Diffusion discusses challenges involved in securing routing in wireless sensor networks with new hybrid topologies. An analysis of the security of real time data diffusion—a protocol for routing in wireless sensor networks—is provided, along with various possible attacks and possible countermeasures.

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This repository contains all files needed to reproduce the Wireless Sensor Network (WSN) used for the Data-Driven Building Retrofit Research of the A/S Chair. The WSN is intended to be deployed in residential buildings to collect sensor data for building model calibration. The microcontroller boards are based on the Arduino framework.

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Building Wireless Sensor Networks: Application to Routing and Data Diffusion discusses challenges involved in securing routing in wireless sensor networks with new hybrid topologies. An analysis of the security of real time data diffusion—a protocol for routing in wireless sensor networks—is provided, along with various possible attacks and possible countermeasures.

[Building Wireless Sensor Networks with ESP32 LoRa ...](#)

A great book for getting started with using XBee modules for wireless sensor communication. If you have experience prototyping with circuits and microcontrollers (Arduino), much of the info will be redundant. However, you can do as I did and follow along while replacing the simple projects with your personal, more complex projects.

[Building Wireless Sensor Networks - Rob Faludi](#)

Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios. By the time you're halfway through this fast-paced, hands-on guide, you'll have built a series of useful projects, including a complete ZigBee wireless network that delivers remotely sensed data.

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