

Building Wireless Sensor Networks: with ZigBee, XBee, Arduino, and Processing

By Robert Faludi

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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.

Radio networking is creating revolutions in volcano monitoring, performance art, clean energy, and consumer electronics. As you follow the examples in each chapter, you'll learn how to tackle inspiring projects of your own. This practical guide is ideal for inventors, hackers, crafters, students, hobbyists, and scientists.

- Investigate an assortment of practical and intriguing project ideas
- Prep your ZigBee toolbox with an extensive shopping list of parts and programs
- Create a simple, working ZigBee network with XBee radios in less than two hours -- for under $100
- Use the Arduino open source electronics prototyping platform to build a series of increasingly complex projects
- Get familiar with XBee's API mode for creating sensor networks
- Build fully scalable sensing and actuation systems with inexpensive components
- Learn about power management, source routing, and other XBee technical nuances
- Make gateways that connect with neighboring networks, including the Internet

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Editorial Review

About the Author

Robert Faludi is an NYU Professor, SVA professor, and an expert consultant on commercial projects, including large-scale home energy monitoring. His work has appeared in The New York Times, CNet, Good Morning America, and elsewhere. He is a co-creator of the LilyPad XBee wearable radios, and Botanicalls, a system that allows thirsty plants to place phone calls for human help.

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