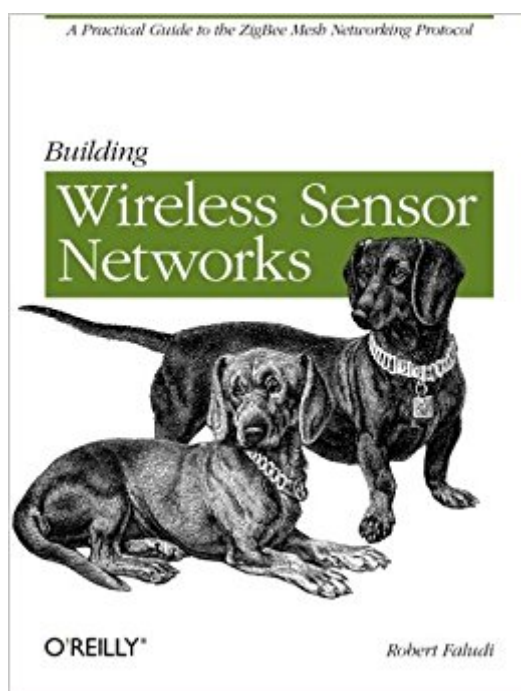The book was found

Building Wireless Sensor Networks: With ZigBee, XBee, Arduino, And Processing

Synopsis

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 ideasPrep your ZigBee toolbox with an extensive shopping list of parts and programsCreate a simple, working ZigBee network with XBee radios in less than two hours -- for under $100Use the Arduino open source electronics prototyping platform to build a series of increasingly complex projectsGet familiar with XBee's API mode for creating sensor networksBuild fully scalable sensing and actuation systems with inexpensive componentsLearn about power management, source routing, and other XBee technical nuancesMake gateways that connect with neighboring networks, including the Internet

Book Information

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Customer Reviews

A Practical Guide to the ZigBee Mesh Networking Protocol

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.

Good place to start. I was having a hard time finding much information on the Internet for Zigbee introduction/explanation so I went ahead and ordered this book. The version of XCTU is out of date and the interface has completely changed, however the information is detailed enough to find everything you need. I'm sure it saved me a lot of time.

This is a fantastic book. It is so clearly written that I couldn't believe that I'd spent so much of my time and money trying to understand XBees before falling to finding this. I recommend this before any other book on building wireless networks. Money well spent.

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.

Unlike other books, this book is intended for a user of ZigBee radios, NOT ZigBee protocol stack developers. This book does exactly what it was written to do, it provides a basis for using ZigBee (series 2) radios with a microcontroller. The book covers basic AT command setup (modem like commands used for the simplest of ZigBee communications) as well as API (direct comuter ZigBee commands) usage.It does not assume any advanced knowledge of ZigBee or wireless communications. As a matter of fact it presents some inforamtion in an over simplified manner. This, however, is done with a great writting style and not all irritating to more advanced users (that is, you can skim the text for what you need).I would highly recommand this book to anyone just starting out with ZigBee radios. I would also note that this book does not cover the series 1 radios, which are not series 2 compatible, though the same principals apply.

Good basic information, but out of date concerning available hardware.

This book came highly recommended for series 2 xbee modules. It's a good read and very through

in explaining the fine details on these complicated modules. Be aware though, many people complain it is not good for the simpler xbee series 1 modules, this is true, as those modules are not nearly as complicated as series 2! Overall the book was a good reference that i would highly recommend.

Good for an introduction, but it lacks the good explanation the moment it gets to the chapter of using Processing.

Faludi is funny and clear, but doesn't treat the reader like a child. 10/10. Not new to Arduino but new to XBee/ZigBee, learned a lot from this book.

Building Wireless Sensor Networks: with ZigBee, XBee, Arduino, and Processing Hacking: Wireless Hacking, How to Hack Wireless Networks, A Step-by-Step Guide for Beginners (How to Hack, Wireless Hacking, Penetration Testing, Social ... Security, Computer Hacking, Kali Linux) Designing and Deploying 802.11 Wireless Networks: A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications (2nd Edition) (Networking Technology) Wireless Hacking: How to Hack Wireless Networks (Hacking, How to Hack, Penetration testing, Basic Security, Kali Linux book Book 1) Beginning Sensor Networks with Arduino and Raspberry Pi (Technology in Action) Building iPhone and iPad Electronic Projects: Real-World Arduino, Sensor, and Bluetooth Low Energy Apps in techBASIC Remote Sensor Monitoring by Radio with Arduino: Detecting Intruders, Fires, Flammable and Toxic Gases, and Other Hazards at a Distance Health Monitoring of Aerospace Structures: Smart Sensor Technologies and Signal Processing Computer Forensics: Investigating File and Operating Systems, Wireless Networks, and Storage (CHFI), 2nd Edition (Computer Hacking Forensic Investigator) Applied Optimization Methods for Wireless Networks Beginning C for Arduino, Second Edition: Learn C Programming for the Arduino Making Things Talk: Using Sensors, Networks, and Arduino to See, Hear, and Feel Your World A DEMONSTRATION OF DIGITAL RADIOGRAPHY Technique for the Bitewing Exposure (BWX) and Periapical (PA) X-Ray with Digital Sensor Aerospace Sensor Systems and Applications Multi-Sensor Data Fusion with MATLABÃ Â® Sensor Technology Handbook Electronic Sensor Circuits & Projects, Volume III (Engineer's Mini Notebook) JavaScript Robotics: Building NodeBots with Johnny-Five, Raspberry Pi, Arduino, and BeagleBone (Make) Environmental Monitoring with Arduino: Building Simple Devices to Collect Data About the World Around Us Atmospheric Monitoring with Arduino: Building Simple Devices to Collect Data About the Environment

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