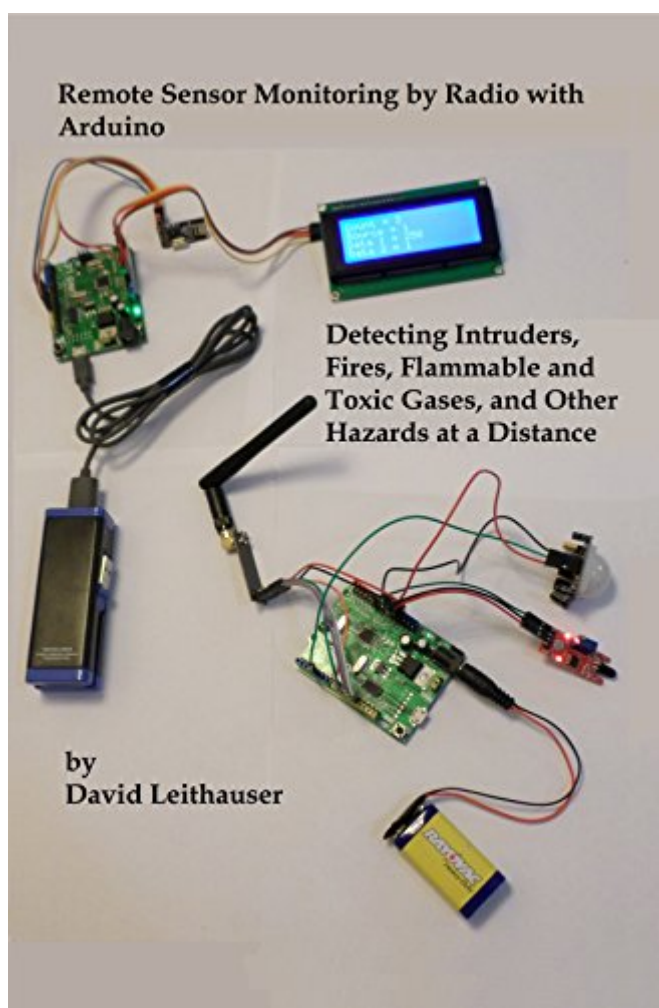


The book was found

Remote Sensor Monitoring By Radio With Arduino: Detecting Intruders, Fires, Flammable And Toxic Gases, And Other Hazards At A Distance



Synopsis

This book is about connecting sensors and radio transceivers to an Arduino so that you can monitor the sensor readings from a distance. You can put the Arduino sensor package miles away from the receiving station, in your front or back yard, or even in your home like your basement or attic. Although the techniques described in this book will work with any type of sensor input, the book will focus on sensors that detect potentially dangerous or disruptive conditions. These will include intruders, fires, temperature extremes (both hot and cold), flammable gases, toxic gases like pollution, power failures, floods (including minor â œfloodsâ • like a pipe bursting), and other situations. For the radio communications, we will use the nRF24L01 transceiver. This inexpensive chip (usually around \$1.00 on EBay) interfaces easily with the Arduino and can both transmit and receive data. It has an advertised range of 100 meters (about 328 feet) for the basic unit, although in actual practice it may be closer to 30 meters (about 98 feet). However, with an optional antenna the range is reported to be 1,000 meters (1 km, about .6 miles). In the first five chapters, I explain the hardware and software aspects of this handy transceiver, enabling you to set up the communications. I even explain how to set up repeater transmitters that can relay the signal from locations beyond the 1 km range. Thus, this books provides ideas for how to use the nRF24L01 transceiver for many purposes. In the chapters after these five chapters on the basics of the nRF24L01, I discuss attaching and operating various sensors, explaining how to set them up and integrate them into the transmission software. The chapters will be divided by hazards you can monitor, not specific sensors, so one chapter may include several different types of sensors that can be used to detect the same hazard. The main sketches in this book an be downloaded from any of these

URLs<https://github.com/DavidLeithauser/remote-sensors-Arduino/tree/master><http://LeithauserResearch.com/RemoteSensors.zip><http://rfiles.com/RemoteSensors.zip><https://app.box.com/s/xsf7e6gs0f5jteijvcq7zd38cfwcu53r>See the ReadMe.txt file in the archive for advice on using the files.All of the sketches in this book have been tested and work as described. If you have any problem running them, you can contact the author at Leithauser@aol.com. Please use subject line Remote Sensor Book on the email.

Book Information

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Customer Reviews

would purchase again

Very good book. The code for the repeaters is quite useful. Haven't found the example code online yet, but I trust the author will post it. There are some neat projects. Could see good use for the power failure project.

Good read.

I can't review the book, but recieved a nice email from David Leithauser (the author), in response to the review by another "John Harris" which complained about the sketches not compiling. He offered to help troubleshoot any compatibility issues with my IDE or Arduino model, to get me up and running.

Limited to specific sensors but it gives you the concepts and you can investigate the rest on your own.

Needs a serious edit for grammar and word usage. Sketches need testing as many of them do not work

There are lots of examples and ideas!! Written very well and is easy to follow. There are so many possibilities.

This provides a fun and inexpensive way to making your own smart home. Very informative and we'll written. Provides examples with multiple sensors.

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