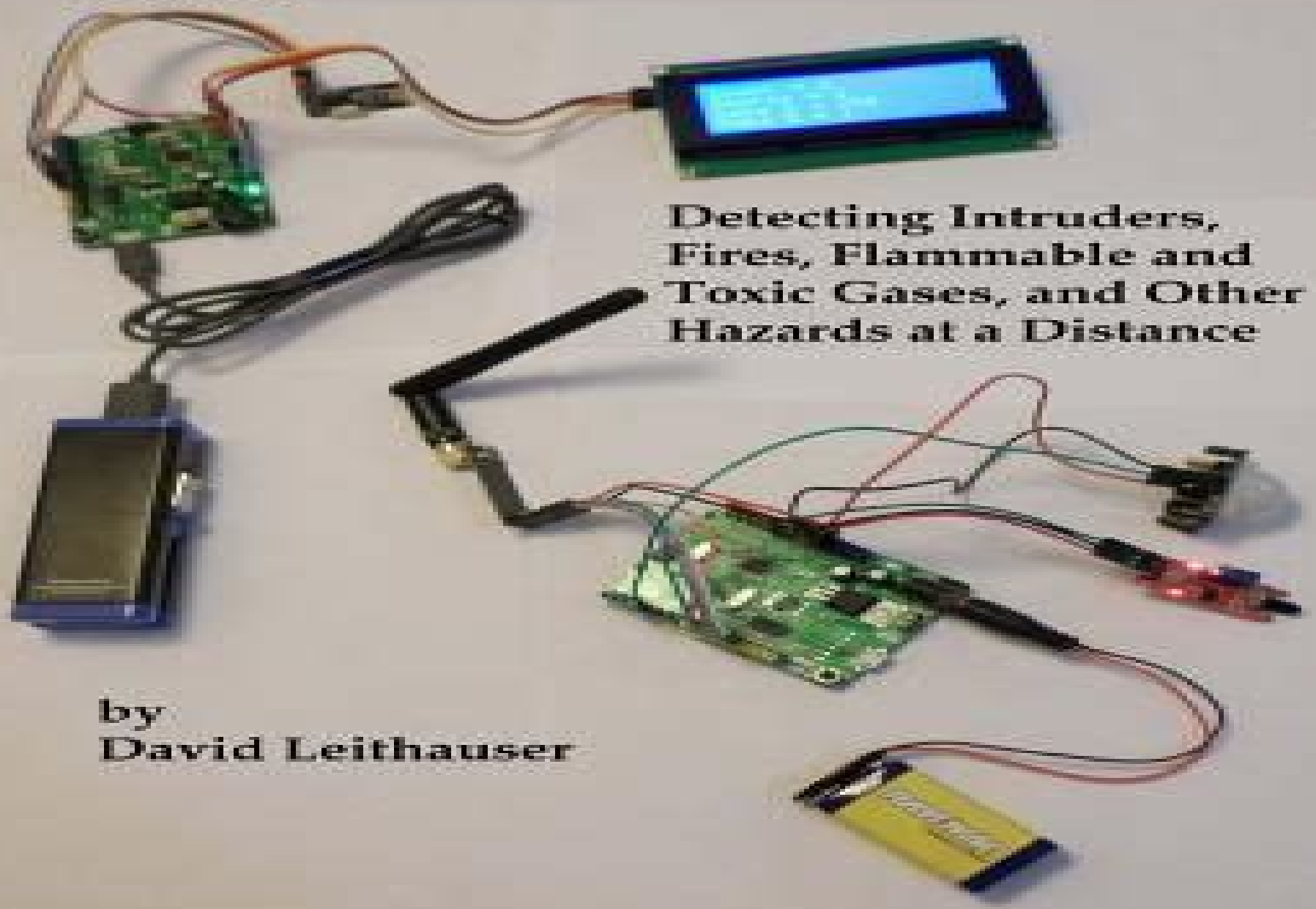


# Remote Sensor Monitoring by Radio with Arduino



Detecting Intruders,  
Fires, Flammable and  
Toxic Gases, and Other  
Hazards at a Distance

by  
David Leithauser

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

**Raleigh Coones**



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

Remote Sensor Monitoring by Radio with Arduino David Leithauser, 2016-06-26 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 flammable gas leaks and other toxic gases like pollution power failures floods including minor floods like a pipe bursting and other hazards For the radio communications we will use the nRF24L01 transceiver chip 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 In the chapters after these five chapters I discuss attaching and operating various analog and digital 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 *Arduino Monitoring System* Raleigh Coones, 2021-03-28 The guidebook on how to connect sensors and radio transceivers to the Arduino for your home 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 floods like a pipe bursting and other situations 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 *Remote Sensor Monitoring* Jean Marrinan, 2021-03-24 The guidebook on how to connect sensors and radio transceivers to the Arduino for your home 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 floods like a pipe bursting and other situations 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      **Sensors for Fire and Smoke Monitoring** Robert S Allison, Joshua Johnston, Martin Wooster, 2021-10-31  
This book presents the papers accepted to the Special Issue of the journal Sensors on Sensors for Fire and Smoke Monitoring  
The ten contributions to this book present a unique cross section of current research priorities related to fire and smoke sensing in the scientific community Although far from a complete survey the articles presented demonstrate a growing interest in the use of remote sensing for wildfire research and monitoring and the pursuit of new technologies for the detection and characterization of smoke fire and their by products Notably there is a strong interest in processing techniques for extracting increasingly complex products from existing data types The papers presented provide an accurate reflection of the present focus of our field and provide a balanced introduction to the topic of sensors for fire and smoke monitoring

**Automated Remote Monitoring of Toxic Gases with Diode-laser-based Sensor Systems** ,1993      *Use of Sensors for Fire Detection and Monitoring* Noah Ryder, 2019 The ultimate goal of placing fire detection systems in buildings and structures is to allow for the rapid detection of fire and accurate prediction of ensuing fire behavior Through a priori prediction of how a fire might evolve relevant information can be delivered to the appropriate stakeholders In the near term development of detection systems which detect fire events more quickly with better discrimination against nuisance and false alarms and allow real time monitoring of the state of a fire is a critical interim step If we are able to detect fires earlier than is presently possible loss of life injuries and property damage may be drastically reduced In addition if earlier detection is simultaneously paired with collection of better information on the spatial location of the fire and its stage of development this information can be delivered to emergency first responders Emergency response planning and actions can then be targeted such that appropriate resources are applied earlier in a fire situation This will further reduce the potential for loss of life and injury to both occupants and first responders as well capital losses due to fire The advent of building monitoring systems affords excellent potential to improve upon current fire detection protocols Building systems incorporate a large quantity of different sensors for a variety of uses Currently most building sensors are focused primarily on the parameters necessary to optimize building efficiency and on intrusion detection but they are installed at much higher density than standard fire detectors and the density is increasing as greater efficiencies in cost and quicker return on investment can be achieved While most of these sensors are presently chosen to fulfill building management purposes there is significant opportunity to integrate some of the existing sensors or to develop new sensors of similar type for applications in systems for rapid fire detection real time fire monitoring and potentially fire forecasting Leveraging building environmental and other sensors for this expanded use however requires further knowledge about the characteristics of fires from ignition to full growth specifically with regards to those physical characteristics which might be measured by any new fire detection sensor suites One of the biggest challenges associated with development of new fire detection systems is their associated cost and the reluctance on the part of building owners insurers and other parties to invest in detection systems when fire is such a rare

event Thus while there has been research into improved fire detection technology there has been limited advancement in detection system design Ultimately the limiting factors around potential use of building monitoring sensors for this purpose will relate to determination of optimal sensor response to various signals generated by a developing fire and optimal sensor density in terms of cost versus position of sensors relative to potential fire sources One of the best chances for improved fire detection as well as potentially for reduced nuisance alarms and enhanced fire monitoring is to first take advantage of the signals transmitted by building sensors and assess their potential for use in fire detection Therefore the objectives of this research were to characterize fire and non fire environments using a range of sensor technologies to determine potential characterization parameters and to evaluate background and nuisance sensor response using the same sensor technologies to identify candidate sensors and develop an idealized sensor block and finally to develop algorithms for fire state determination Approximately 125 experiments were performed in a range of environments ranging from a 1m 3 box to full scale experiments in a two story structure Temperature relative humidity and luminosity were measured during all experiments while heat flux and heat release rate were additionally measured during the full scale experiments The research shows that fire signals measured using non fire sensors could be distinguished from background and nuisance signals indicating their potential for use in improved fire state determination The data collected in particular with regards to luminosity and relative humidity has not been previously reported in the literature and thus provides new information that may be leveraged for incipient fire detection and monitoring Furthermore a novel learning algorithm hierarchical temporal memory a real time continuous learning algorithm yielded promising results for fire state determination Real time data streaming of the sensor data paired with the hierarchical temporal memory yielded the ability to rapidly identify fire anomalies

**Atmospheric Monitoring with Arduino** Patrick Di Justo, Emily Gertz, 2012 *Arduino Remote Sensing & Control Using 433 MHz Modules* Steven Mortimer Hodder, 2017 This book introduces remote sensing and control with the Arduino microcontroller Colour illustrations are used throughout along with sample code The experiments are developed in easy to follow stages and use a specially written library that greatly simplifies the coding A companion website is available for code and resources

**Generic Microelectronic Smart Sensor Platform for Detection of Toxic, Hazardous, and Flammable Gases**, 1993 Extensive work has been performed in the past which demonstrates that various metal alloys can be used to detect different toxic hazardous and flammable gases Work has been performed using Pd Pt Ir PdNi PdAg and Pt Pd for detecting things such as Hydrogen Hydrazine Hydrogen Sulfide Deuterium Tritium Ethanol and Hexane Perhaps the most familiar is the use of Pd and PdNi for the detection of Hydrogen These devices work by examining the effect of the gases on the material properties of the metal alloys Two of the most common material properties examined in these sensors are the resistance of thin film resistors and the flatband or threshold voltage shifts of MOS structures fabricated with a particular alloy as the gate material While research into these sensing techniques has shown much promise few

manufacturable fieldable devices have resulted These sensing techniques are prone to drift problems due to temperature variations and typically have large sample to sample variations in performance due to process control issues Typically these sensors require significant external instrumentation for measurement and control making the systems large and expensive Sandia National Laboratories has designed fabricated and demonstrated complete functionality of a generic microelectronic based smart sensor platform intended to effectively exploit the research mentioned above into high performance manufacturable fieldable devices This smart sensor platform technology fabricates 2  $\mu$  m CMOS digital and analog control electronics sensing elements and temperature control elements on the same silicon integrated circuit Our initial demonstration of this technology incorporates PdNi as the sensing alloy for the detection of hydrogen

**Sensor Array for Toxic Gas Detection**, 1987 A portable instrument for use in the field in detecting and identifying a hazardous component in air or other gas including an array of small sensors which upon exposure to the gas from a pattern of electrical responses a source of standard response patterns characteristic of various components and microprocessor means for comparing the sensor formed response pattern with one or more standard patterns to thereby identify the component on a display The number of responses may be increased beyond the number of sensors by changing the operating voltage temperature or other condition associated with one or more sensors to provide a plurality of responses from each of one or more of the sensors In one embodiment the instrument is capable of identifying anyone of over 50 100 hazardous components

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