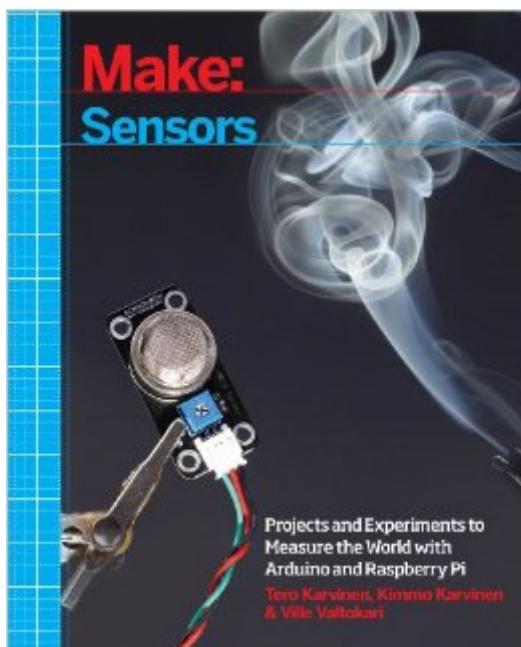# Make: Sensors: A Hands-On Primer For Monitoring The Real World With Arduino And Raspberry Pi

Synopsis

Make: Sensors is the definitive introduction and guide to the sometimes-tricky world of using sensors to monitor the physical world. With dozens of projects and experiments for you to build, this book shows you how to build sensor projects with both Arduino and Raspberry Pi. Use Arduino when you need a low-power, low-complexity brain for your sensor, and choose Raspberry Pi when you need to perform additional processing using the Linux operating system running on that device.You'll learn about touch sensors, light sensors, accelerometers, gyroscopes, magnetic sensors, as well as temperature, humidity, and gas sensors.

Book Information

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Customer Reviews

Im an EE who is more analog oriented, and eventhough I did get my fair share of "digitial" and microcontroller programming at college, the Arduino and Raspberry Pi stuff is relatively foreign land to me, perhaps it was because they were sometimes frowned upon by college instructors, specially Arduinos, probably because everyone nowadays can download a code into an arduino and have a working project with out actually knowing anything about electronics or programming, so I can understand their discontent.This book covers a great deal of 'pre-made' or 'plug-n-play' sensors and or sensor boards out there, assumes zero electronics knowledge from the reader, and very basic programming skills, electronic theory is almost non-existen, yet it mentions the most relevant stuff. This book is a great resource to familiarize yourself with the new gadgets out there, which again,

wont be covered in most schools with a more traditional and professional oriented approach. Im surprised at how easy it is to do things with these boards, everything is already pre-made for you in a library, I actually feel a bit bad about it, like a trained monkey just using the pre-made libraries since I was always taught to bit bang most of the stuff, then again that gave me a better understanding of the inner workings which this book lacks.That being said, I believe this is not only an excelent and fun book about sensors, but also it is a great resource to learn how to program on the Arduino or Raspberry Pi, it is particularly easy if you already know C or Python. It will definitely help aspiring amateurs make interesting projects, and will also help EE's to discover newer gadgets or perhaps get an idea on how to solve a certain problem by looking at the different posibilities out there.

Make: Sensors: A Hands-On Primer for Monitoring the Real World with Arduino and Raspberry Pi Raspberry Pi 3: 2016 Raspberry Pi 3 User Guide (Raspberry Pi, Raspberry Pi 2, Raspberry Pi Programming, Raspberry Pi Projects) Raspberry Pi 3: A Simple Guide to Help You Get the Most Out of Your Raspberry Pi 3 (Raspberry Pi, Python, Raspberry Pi 2, Perl, Programming, Raspberry Pi 3, Ruby) Raspberry Pi 3: Get Started With Raspberry Pi 3 - A Simple Guide To Understanding And Programming Raspberry Pi 3 (Raspberry Pi 3 User Guide, Python Programming, Mathematica Programming) Raspberry Pi: 101 Beginners Guide: The Definitive Step by Step guide for what you need to know to get started (Raspberry Pi, Raspberry, Single Board Computers, ... Pi Programming, Raspberry Pi Projects) Raspberry Pi 2: 101 Beginners Guide: The Definitive Step by Step guide for what you need to know to get started (Raspberry Pi 2, Raspberry, Single Board ... Pi Programming, Raspberry Pi Projects) Raspberry Pi: Guide For Simple Python & Projects Programming (Raspberry Pi Books, raspberry pi projects, raspberry pi for dummies) Programming Raspberry Pi 3: Getting Started With Python (Programming Raspberry Pi 3, Raspberry Pi 3 User Guide, Python Programming, Raspberry Pi 3 with Python Programming) Arduino: Complete Beginners Guide For Arduino - Everything You Need To Know To Get Started (Arduino 101, Arduino Mastery) Getting Started with Sensors: Measure the World with Electronics, Arduino, and Raspberry Pi Raspberry Pi 2: Raspberry Pi 2 Programming Made Easy (Raspberry Pi, Android Programming, Programming, Linux, Unix, C Programming, C+ Programming) Arduino: The Ultimate QuickStart Guide - From Beginner to Expert (Arduino, Arduino for Beginners) Make a Raspberry Pi-Controlled Robot: Building a Rover with Python, Linux, Motors, and Sensors Surface Plasmon Resonance Based Sensors (Springer Series on Chemical Sensors and Biosensors) Make: Action: Movement, Light, and Sound with Arduino and Raspberry Pi Make: Bluetooth: Bluetooth LE Projects with Arduino,

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