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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.

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Customer Reviews

I'm an EE who is more analog oriented, and even though I did get my fair share of "digital" 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 without 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 sensor boards out there, assumes zero electronics knowledge from the reader, and very basic programming skills, electronic theory is almost non-existent, yet it mentions the most relevant stuff. This book is a great resource to familiarize yourself with the new gadgets out there, which again,

won't be covered in most schools with a more traditional and professional oriented approach. I'm 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 excellent 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 possibilities out there.

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