After the devastating tsunami in 2011, DIYers in Japan built their own devices to detect radiation levels, then posted their finding on the Internet. Right now, thousands of people worldwide are tracking environmental conditions with monitoring devices they’ve built themselves. You can do it too! This inspiring guide shows you how to use Arduino to create gadgets for measuring noise, weather, electromagnetic interference (EMI), water purity, and more. You’ll also learn how to collect and share your own data, and you can experiment by creating your own variations of the gadgets covered in the book. If you’re new to DIY electronics, the first chapter offers a primer on electronic circuits and Arduino programming.

- Use a special microphone and amplifier to build a reliable noise monitor
- Create a gadget to detect energy vampires: devices that use electricity when they’re off
- Examine water purity with a water conductivity device
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- Extend Arduino with an Ethernet shield and put your data on the Internet
- Share your weather and radiation data online through Pachube

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Raspberry Pi Hardware Projects 2, Andrew Robinson, Mike Cook, Nov 12, 2013, Computers, 776 pages. Raspberry Pi is a UK Non Profit with the goal of creating a new generation of computer programmers. Observing how the UK Tech Industry was kickstarted by the availability in.


Getting Started with Intel Galileo, Matt Richardson, Professor Matt Richardson, Mar 14, 2014, Computers, 194 pages. Getting Started with the Intel Galileo gets you up and running with this new, x86-powered board that was developed in collaboration between Arduino and Intel. You’ll learn how.

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Getting Started with Matlab Simulink and Arduino, Agus Kurniawan, Getting started with Matlab Simulink and Arduino comprehensively explains how to use MATLAB and Simulink to perform Arduino simulation. This book begins with covering the.

Programming Interactivity A Designer’s Guide to Processing, Arduino, and Openframeworks, Joshua Noble, Jul 16, 2009, Computers, 736 pages. Make cool stuff. If you’re a designer or artist without a lot of programming experience, this book will teach you to work with 2D and 3D graphics, sound, physical interaction.


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This four-volume handbook is the definitive reference in the field of child development. It serves as a sourcebook, encyclopedia, and research review. Use vocabulary cartoons to boost students' reading, writing, and test-taking skills.


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