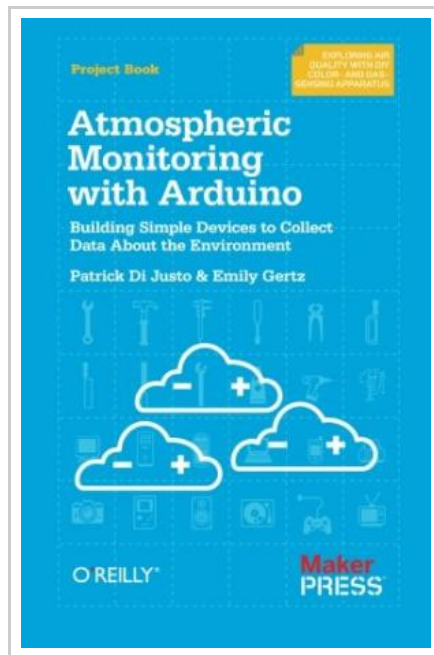




Atmospheric Monitoring with Arduino Building Simple Devices to Collect Data About the Environment

By Patrick Di Justo

Maker Media, Inc. Paperback. Book Condition: New. Paperback. 90 pages. Dimensions: 8.3in. x 5.4in. x 0.3in. Makers around the globe are building low-cost devices to monitor the environment, and with this hands-on guide, so can you. Through succinct tutorials, illustrations, and clear step-by-step instructions, you'll learn how to create gadgets for examining the quality of our atmosphere, using Arduino and several inexpensive sensors. Detect harmful gases, dust particles such as smoke and smog, and upper atmospheric hazesubstances and conditions that are often invisible to your senses. You'll also discover how to use the scientific method to help you learn even more from your atmospheric tests. Get up to speed on Arduino with a quick electronics primerBuild a tropospheric gas sensor to detect carbon monoxide, LPG, butane, methane, benzene, and many other gasesCreate an LED Photometer to measure how much of the sun's blue, green, and red light waves are penetrating the atmosphereBuild an LED sensitivity detectorand discover which light wavelengths each LED in your Photometer is receptive toLearn how measuring light wavelengths lets you determine the amount of water vapor, ozone, and other substances in the atmosphereUpload your data to Cosm and share it with others via the InternetThe future will...



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