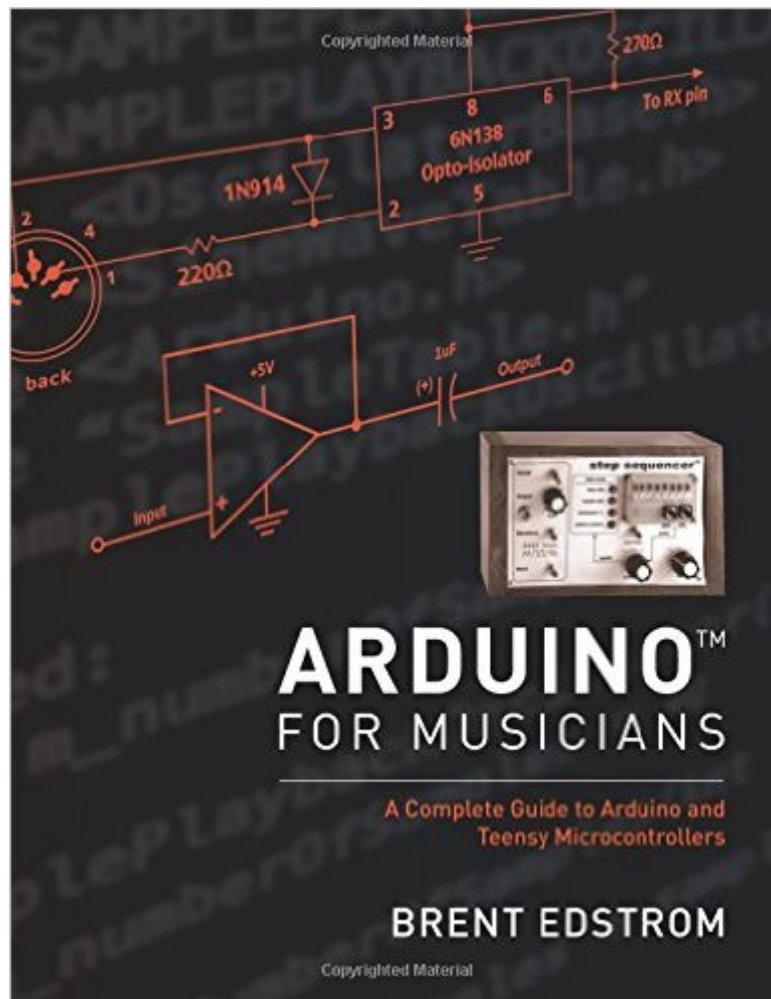


The book was found

# Arduino For Musicians: A Complete Guide To Arduino And Teensy Microcontrollers



## Synopsis

Arduino, Teensy, and related microcontrollers provide a virtually limitless range of creative opportunities for musicians and hobbyists who are interested in exploring "do it yourself" technologies. Given the relative ease of use and low cost of the Arduino platform, electronic musicians can now envision new ways of synthesizing sounds and interacting with music-making software. In *Arduino for Musicians*, author and veteran music instructor Brent Edstrom opens the door to exciting and expressive instruments and control systems that respond to light, touch, pressure, breath, and other forms of real-time control. He provides a comprehensive guide to the underlying technologies enabling electronic musicians and technologists to tap into the vast creative potential of the platform. *Arduino for Musicians* presents relevant concepts, including basic circuitry and programming, in a building-block format that is accessible to musicians and other individuals who enjoy using music technology. In addition to comprehensive coverage of music-related concepts including direct digital synthesis, audio input and output, and the Music Instrument Digital Interface (MIDI), the book concludes with four projects that build on the concepts presented throughout the book. The projects, which will be of interest to many electronic musicians, include a MIDI breath controller with pitch and modulation joystick, "retro" step sequencer, custom digital/analog synthesizer, and an expressive MIDI hand drum. Throughout *Arduino for Musicians*, Edstrom emphasizes the convenience and accessibility of the equipment as well as the extensive variety of instruments it can inspire. While circuit design and programming are in themselves formidable topics, Edstrom introduces their core concepts in a practical and straightforward manner that any reader with a background or interest in electronic music can utilize. Musicians and hobbyists at many levels, from those interested in creating new electronic music devices, to those with experience in synthesis or processing software, will welcome *Arduino for Musicians*.

## Book Information

Paperback: 456 pages

Publisher: Oxford University Press; 1 edition (April 22, 2016)

Language: English

ISBN-10: 0199309329

ISBN-13: 978-0199309320

Product Dimensions: 11 x 1.3 x 8.5 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #346,378 in Books (See Top 100 in Books) #115 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics #164 in Books > Computers & Technology > Hardware & DIY > Single Board Computers #173 in Books > Science & Math > Physics > Acoustics & Sound

## Customer Reviews

Great informative book.

Great book

[Download to continue reading...](#)

Arduino for Musicians: A Complete Guide to Arduino and Teensy Microcontrollers Arduino: Complete Beginners Guide For Arduino - Everything You Need To Know To Get Started (Arduino 101, Arduino Mastery) JUKE BOX COMICS 1 (Issues 1-2-3): TRUE STORIES OF BAND LEADERS, SINGERS, SONG WRITERS, MUSICIANS AND ENTERTAINERS FROM THE 'SWING MUSIC BIG BAND' ERA Arduino: The Ultimate QuickStart Guide - From Beginner to Expert (Arduino, Arduino for Beginners) Lennon on Lennon: Conversations with John Lennon (Musicians in Their Own Words) Sleisenger and Fordtran's Gastrointestinal and Liver Disease Review and Assessment (Sleisenger and Fordtrans Gastrointestinal and Liver) Arduino: 2016 Arduino Beginner User Guide PROJECTS WITH MICROCONTROLLERS AND PICC Make: Action: Movement, Light, and Sound with Arduino and Raspberry Pi Measurement Made Simple with Arduino: 21 different measurements covers all physical and electrical parameter with code and circuit Die-cutting and Tooling: A guide to the manufacture and use of cutting, embossing and foiling dies, anvils and cylinders The Complete Book of Essential Oils and Aromatherapy: Over 800 Natural, Nontoxic, and Fragrant Recipes to Create Health, Beauty, and Safe Home and Work Environments Eat Fat and Get Thin, Fit, and Healthier Than Ever Before!: Easy Diet and Delicious Cookbook: Recipes for Dramatic and Sustainable Weight Loss (Includes 21 Day Meal Plan) Best Plants for New Mexico Gardens and Landscapes: Keyed to Cities and Regions in New Mexico and Adjacent Areas, Revised and Expanded Edition Amino Acids: The Way to Health and Wellness: Find Health and Healing from Depression, Addictions, Obesity, Anxiety, Sexual Issues, and Fill Nutritional Needs of Vegetarian and Vegan Diets Low-Dimensional and Nanostructured Materials and Devices: Properties, Synthesis, Characterization, Modelling and Applications (NanoScience and Technology) Arduino: A Technical Reference: A Handbook for Technicians, Engineers, and Makers (In a Nutshell) Arduino and Genuino MKR1000 Development Workshop Arduino and Android using MIT

app inventor 2.0: Learn in a day (book for everyone from children to adults) Interfacing LabVIEW  
and Arduino using LINX: Learn in a day

[Dmca](#)