



Electronics Concepts, Labs, and Projects: For Media Enthusiasts, Students, and Professionals (Music Pro Guides)

By Alden Hackmann

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(Music Pro Guide Books & DVDs). Electronics Concepts, Labs, and Projects introduces concepts, techniques, and tools needed for productive growth in the fields of audio, video, and multimedia recording. It includes essential theory relating to electronics principles specific to the audio world, as well as practical lessons on soldering, how to use a digital multimeter for testing audio gear and cables, and how to use an oscilloscope and function generator to diagnose circuits. Also included are descriptions of the components found in electronic circuits and how they work. Seasoned instructor Alden Hackmann uses a bare minimum of math to demonstrate practical concepts, plus every chapter includes a hands-on lab to reinforce that chapter's concepts. There are also seven projects to help the reader develop fundamental soldering skills, including the introduction of techniques for use with a broad variety of cables. The electronics topics includes voltage, current, resistance, and power, and how they are related to one another. Resistors, capacitors, diodes, batteries, switches, LEDs, transformers, diodes, transistors, inductors, and tubes are all explained in a clear and concise manner. With 12 distinct sections, this book can be used in both the class environment and for self-study. The accompanying online media contains lectures and illustrations that support and reinforce the concepts presented in the text.

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Editorial Review

Review

"... [T]his large-format 300-page book is aimed at absolute novices, and it's a direct hit ... I will certainly be recommending it to interested beginners." --Sound on Sound, February 2015

"Nothing in life is easy, but having this book as your main reference source will make your electronic pursuits infinitely less complicated." --Curled Up with a Good Book

About the Author

As a longtime instructor at the Art Institute of Seattle, one of the very few manufacturers or restorers of extremely high-quality hurdy-gurdies, and as a 20-year veteran as a research biologist at the University of Washington, Alden Hackmann brings a wealth of experience teaching, designing, and implementing electronics concepts in multiple real-world settings. With a passion for electronics from an early age and an affinity for a doing things well, Hackmann has even designed and implemented onboard amplification systems.

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