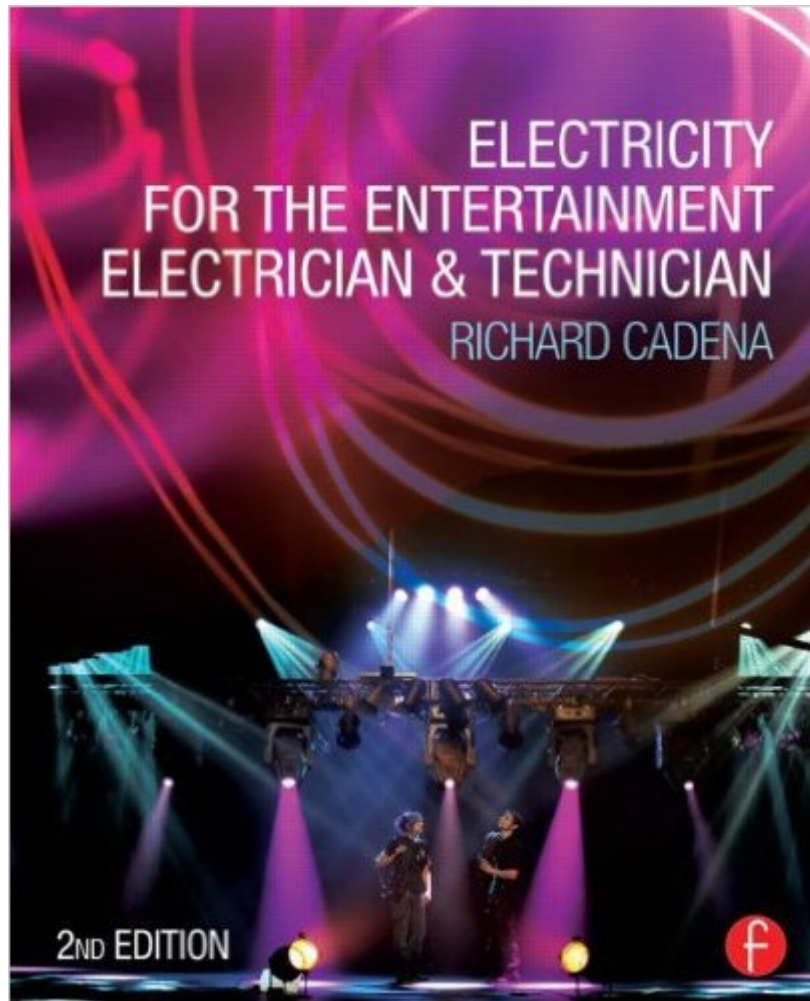


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# Electricity For The Entertainment Electrician & Technician



## Synopsis

The application of electricity for the theatre, concert stage, television studio, or any other production environment differs from that of a residence or commercial building. *Electricity for the Entertainment Electrician & Technician* is the only reference on the market that covers these differences, explaining what entertainment electricians and technicians need to know and why. It not only reinforces the fundamentals of electricity, power distribution, and electrical safety, but also explains the latest developments in technology for the live entertainment professional and aspiring professional. Written by an Entertainment Technician Certification Program (ETCP) Recognized trainer, this reference supports practicing electricians and technicians, and provides new technicians the assistance needed for a successful career in the entertainment industry. Fully updated, the second edition contains new information on systems, protocols, regulations, and safety standards, both domestic and international. Additional resources, including conversion tables, voltage spreadsheets, articles from *Lighting & Sound International*, *Lighting & Sound America*, and *Protocol*, and animations and illustrations depicting electricity and electric power distribution developed for the author's workshops, can be found on the companion website [www.entertainmentelectricity.com](http://www.entertainmentelectricity.com).

## Book Information

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## Customer Reviews

As a studio lighting guy turned Technical Director I quickly found out there was a lot I didn't really know about electricity. Once you leave behind engineered drops of 20-60A stagepins, the world

gets complicated quite a bit. And, for liability's sake, most electricians won't go into too great of detail. But - you NEED to know this stuff if you're planning full shows from the ground up. Enter this book - well written, straight up tells you when to involve someone with more knowledge, and easy to comprehend. A great addition to any show professional's library!

This is an absolutely A+ book for any lighting technician who's interested in the principles behind what we're doing, or who hopes to do any technical troubleshooting at all. Cadena picks up where Harry Box leaves off--this book has very minimal (one chapter) practical set skills, but goes into great detail explaining the WHY. It also has a couple pages of example problems at the end of each chapter, with the solutions at the back, just like high school. If you're a neck-down kinda guy, you don't need and won't enjoy this book. If you geek out on understanding WHY we figure-eight feeder (aka, why coiled feeder sucks more juice without doing any more work/lighting) or HOW power factor comes to exist, rather than just understanding you need to overbuild the distro, this book is for you. I don't expect to ever sit down with a calculator and run trig to understand the degree of phase shift from a ballast while on set, but I do think wrapping my head around this stuff has made me a much better technician, and will help me problem solve the ever-increasing complexity that is entertainment power.

This book is a great collection of information on electricity for a live event production environment including theater, concert stage, TV and film studio. It is a great introductory guide to the subject as well as a quick reference book. It covers everything from basic theory of electricity, terminology, AC/DC power, electrical safety, to power distribution. As an electrical engineer, I found this book is very useful and easy to comprehend. It's loaded with practical information. The book is divided into 12 chapters covering different topics of electricity relevant to live event production. It is written in such a way that is easy to read and understand. Each chapter is extensively illustrated with colorful pictures and diagrams. At the end of each chapter is a list of questions about the topic that are designed to test and reinforce your understanding. This book is for anyone involved in the entertainment industry who wants to understand the application of electricity in a production environment. Whether you are a manager who wants to understand your production stage from the ground-up, or an electrician who wants a quick reference to the task at hand, you'll find the relevant information you need in this book. It is also great reference for preparation for industry certification. It's an indispensable reference book that should belong in your library.

For those unfamiliar with electricity like me, this is an excellent reference type book to help resolve common household electrical issues. (Change that 'issues' to problems. Most folks have issues with other folks, but when it comes to electrical matters they either work or are a problem.) Regardless of its name, this book will probably solve the common problems we encounter. I have scheduled several projects as a direct result of this book and having completed two that I started weeks ago. I hate being a dunce and this book is slowly eliminating or at least reducing my ignorance. It has been a vertical climb out of the darkness of those lacks of neurons. I really enjoy the tests and thank goodness the answers to the questions. Throughout the book, I see many helpful safety related considerations. I have a mini-museum of electrical matters gone bad and the results in the form of burned copper and insulations. A close look will produce burned finger parts, too. I cannot call it a good read; however, I have found no single book that covers entertainment electricity as well nor expect to.

For anyone involved with theater productions, this is a "must have" book for your library. I'm not an electrician but I am very involved in behind-the-scenes work at our local theater. This book did an excellent job of describing the fundamentals and the theories behind electricity. While I would never be entrusted to be the theater's electrician I now have a much better understanding of why things are done the way they are. In addition to the practical knowledge in the book I think you'll appreciate the safety tips. Many of us don't pay much attention to all the wires, etc. snaking around backstage but, after reading this book, you'll learn to respect the work that was done to bring your production to life and an understanding of how dangerous it can be if it isn't done correctly.

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