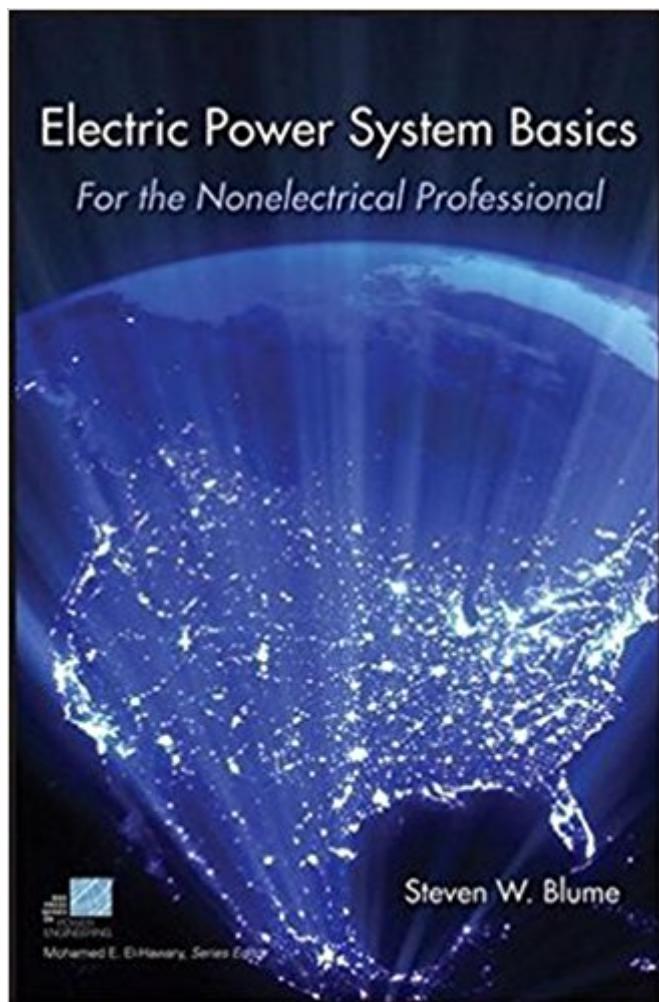


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# Electric Power System Basics For The Nonelectrical Professional



## Synopsis

This book explains the essentials of interconnected electric power systems in very basic, practical terms, giving a comprehensible overview of the terminology, electrical concepts, design considerations, construction practices, operational aspects, and industry standards for nontechnical professionals having an interest in the power industry. From generation to household wiring, this book explains it all in easy-to-understand terms. Electrical Power System Basics exposes readers to all of the important aspects of an interconnected power system without assuming a great deal of existing knowledge or experience. Some very basic formulas are presented throughout the book and several examples, photographs, drawings, and illustrations are provided to help the reader gain a fundamental understanding of the subject.

## Book Information

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## Customer Reviews

"This book is well written and offers a nice overview of power system fundamentals at a level that does not require advanced mathematics or physics." (IEEE Power & Energy Magazine, November/December 2008) "Highly recommends this work for its comprehensive discussion of electric power system terminology, and encourage non-engineering professionals in industry support and auxiliary services (product development, sales, marketing, etc.) to read and keep this excellent resource close at hand." (CHOICE, April 2008) "For the Nonelectrical Professional' says this well-illustrated book's subtitle, and the author does a good job of addressing that audience." (Electrical Apparatus, December 2007)

A clear and easy-to-follow overview of power system technology for nonelectrical professionals. This book explains the essentials of interconnected electric power systems in very basic, practical terms, giving a comprehensible overview of the terminology, electrical concepts, design considerations, construction practices, operational aspects, and industry standards for nontechnical professionals having an interest in the power industry. From generation to household wiring, this book explains it all in easy-to-understand terms. Electrical Power System Basics exposes readers to all of the important aspects of an interconnected power system without assuming a great deal of existing knowledge or experience. Some very basic formulas are presented throughout the book and several examples, photographs, drawings, and illustrations are provided to help the reader gain a fundamental understanding of the subject. Aimed specifically at professionals in a range of industries, including venture capital investors, funding companies, politicians, environmental groups, manufacturing companies, developers, and students in varying disciplines, this book gives readers a coherent, in-depth understanding of how power systems work.

I am not sure who the intended audience is. I envisioned a book for facility managers and nonelectrical engineers, but it is mostly pitched below that level. It is clearly not intended for someone trying to understand the issues involved in distributed generation below utility scale, energy storage, or backup generation, which are not mentioned. Wind and solar get brief mentions with no discussion of technical issues. Cogeneration is covered briefly in terms of energy efficiency. High-voltage DC transmission gets some coverage. If you have an intellectual curiosity about the present electrical transmission and distribution system, and the basics of system stability, this is probably a good starting point. Those topics are pitched at a somewhat higher level. But the treatment of these topics will be more understandable if you already know a bit more about ac power than the book presents. Maybe its best use is as a summary of how the industry was thinking 10-15 years ago, and thus by implication how much things have changed.

The Content is very good and suitable for a nonelectrical professional, which was almost what I have been looking for, for a while. However, I found the images (unclear) which are black and white, especially in comparison to its price, which could be considered somehow expensive.

Great product, on time shipping.

I tend to agree it is a good place to start by looking at the utility side. But the underlying problem is the conflict between the NEC and the Utility code which is based on cost saving and not safety. Realistically this will not change short of litigation

The book, although crazy expensive for a small paperback, covers a wide range of topics lightly - but well enough to better understand and converse with those in the industry.

This book is an excellent primer to the language and elementary physics of the utility industry and provides a good introduction to the gross architecture of the power generation and delivery value chain.

As noted by other reviewers, this book is intended as a comprehensive low- or non-technical introduction for professionals that are not in the industry. As such, it succeeds very well. At no point should the discussions be difficult to understand, even for non-technical professionals. It also provides a good perspective on all of the industry, rather than just one part of it. I was hoping for a little more technical presentation, but must admit that neither the book description or the reviews made that representation. Compared to other books on the electrical industry that go into more detail and are more specialized, the price of the book is very reasonable. (I bought a used one.)

Great book but it appear the publisher, Wiley doesn't maintain an errata page.

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