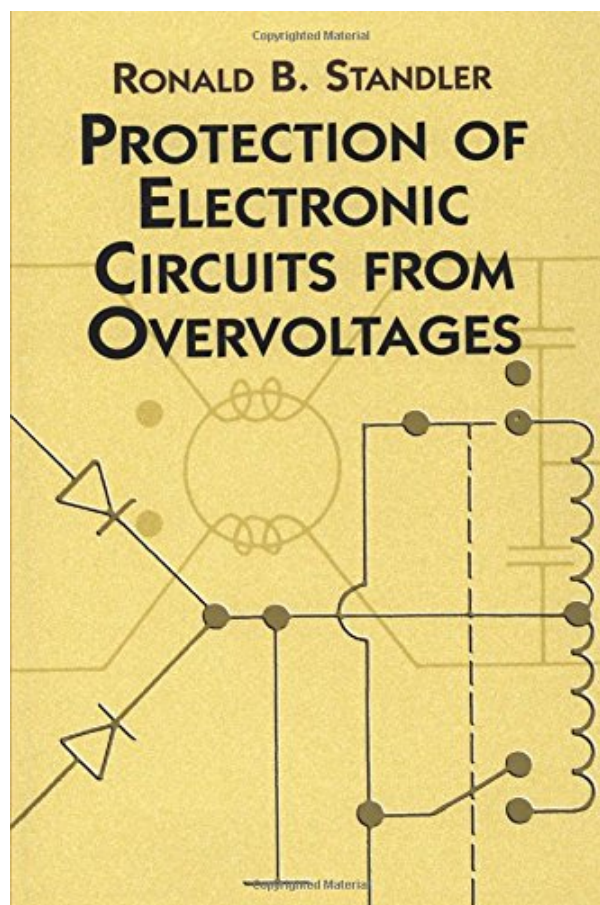
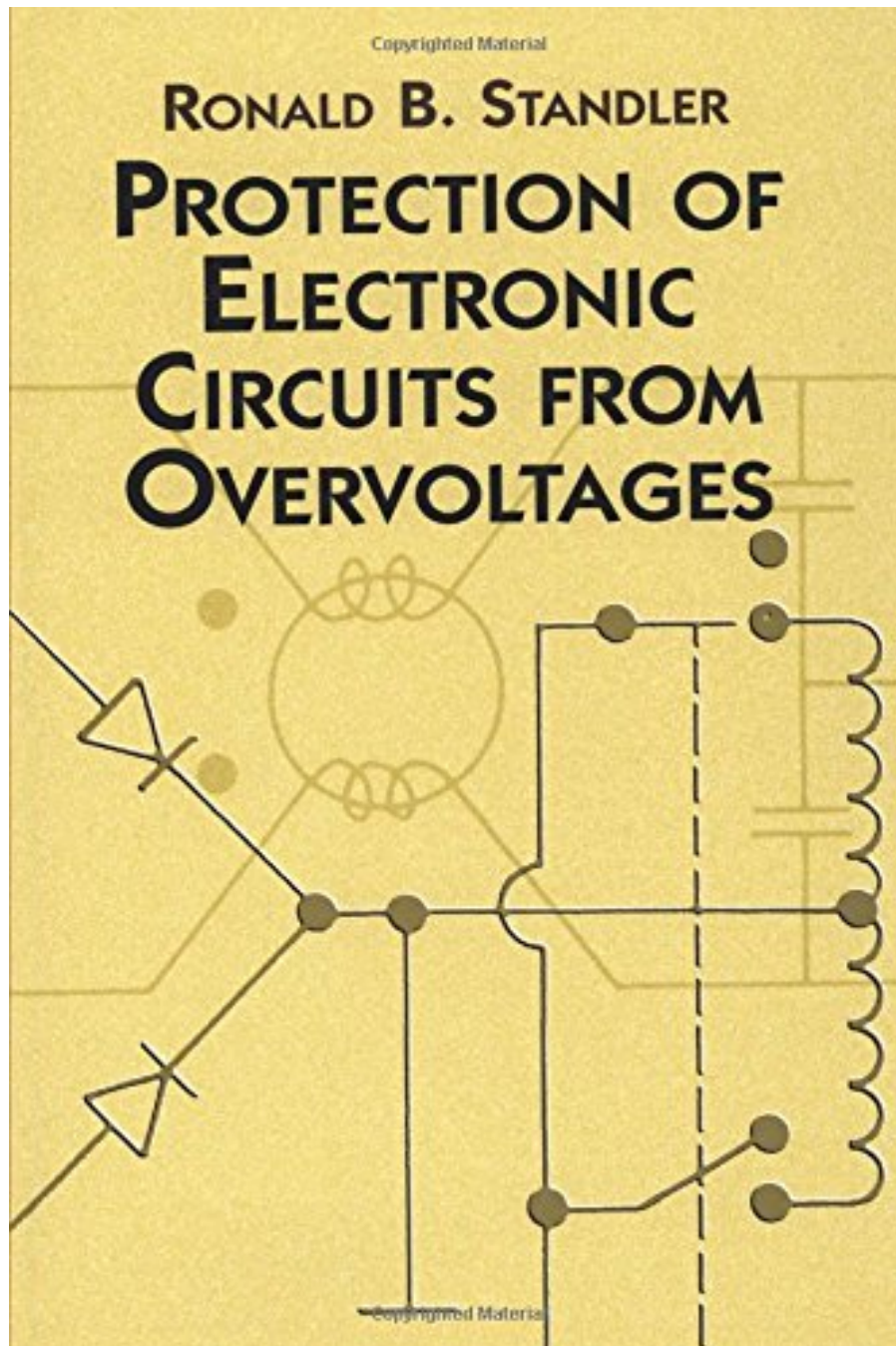


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From the Publisher

Presents practical rules and strategies for the design of circuits in order to protect electronic systems from damage by transient overvoltages. Describes the physics of overvoltage events and presents protective procedures for a wide variety of overvoltage threats. Includes protection methods for equipment operating from mains with nominal voltages up to 1kV rms. Contains a list of manufacturers of components and equipment.

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# **PROTECTION OF ELECTRONIC CIRCUITS FROM OVERVOLTAGES (DOVER BOOKS ON ELECTRICAL ENGINEERING) BY RONALD B. STANDLER PDF**

Temporary failure and permanent damage of electronic systems are often caused by electrical overstresses such as lightning, electromagnetic pulses from nuclear weapons, and switching of reactive loads. Protecting industrial, military, and consumer systems from failure is critical; and until the publication of this volume, the related literature was scattered throughout journals, patents, conference proceedings, military reports, and elsewhere. This convenient text presents practical rules and strategies for circuits designed to protect electronic systems from damage by transient overvoltages. Because many circuits operate from AC supply mains, protection of equipment operating from the mains is also discussed. The five-part treatment covers symptoms and threats, fundamental remedies, types of protective devices, applications of protective devices, and validation of protective measures. Specific topics include damage and upset, environmental threats, standard test waveforms, and properties of nonlinear transient protection devices, plus protective applications related to signal circuits, DC power supplies, and low-voltage AC mains.

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## From the Publisher

Presents practical rules and strategies for the design of circuits in order to protect electronic systems from damage by transient overvoltages. Describes the physics of overvoltage events and presents protective procedures for a wide variety of overvoltage threats. Includes protection methods for equipment operating from mains with nominal voltages up to 1kV rms. Contains a list of manufacturers of components and equipment.

## Most helpful customer reviews

7 of 7 people found the following review helpful.

You will be up to speed on overvoltage protection in two weeks

By David S. Drinnan

I spent more than six months swimming through the internet, trying to find an exhaustive source that would give me textbook-like explanations of the overvoltage protection I needed for my project. After wading for so long, I bit the bullet and looked for a real textbook and bought this one.

Two weeks later, I knew everything I needed to know to finish my overvoltage protection design. A week after that, I had finished my design. All for ~\$30. I'm bashing my head on my desk as I write for not getting

this book sooner. This is a \$150 value book being practically given away.

Dr. Standler follows a logical order for the overvoltage protection beginner. It begins with the source of overvoltages and how they end up propagating into your circuit (including a fun explanation of how nuclear weapons cause electromagnetic pulses!).

Standler then explains in detail all of the waveforms that are used to approximate the overvoltages. These include 8/20 us current waveform, 1.2/50 us voltage waveform, ring waveform, Electrical Fast Transient (EFT ), 10/1000 us, 10/700 us, and more. I remember seeing the 8/20 us nomenclature everywhere as I waded through the Internet, and having a foggy idea of what it was, but never getting a precise explanation of what it and other test waveforms were. For me, those chapters alone are worth the \$150 value.

The book then continues from the approximate waveforms of overvoltages into exhaustive explanations of the protection devices used in electronic circuits. These include gas tubes, spark gaps, varistors of all kinds including MOVs, avalanche and Zener diodes, typical diodes and rectifiers, thyristors including SCRs and Triacs, the simple devices no one thinks to use - resistors, inductors, and capacitors, positive-temperature-coefficient resistors (PTC fuses), filters, and finally isolation devices such as isolation transformers, optical isolators, and fiber optics. Isolation devices is one of the places that this book is noticeably out-of-date, as it makes no mention of capacitive isolation devices such as the Texas Instruments ISO124 and DCP01 chips. However, the practical explanations of how to use isolation devices in your design are still valid and useful. Standler also has an in-depth discussion of the parasitic inductance of all of these devices (including the inadvertent transformer effect), how it can degrade the performance of the devices, and practical ways of reducing these effects.

Again, the in-depth explanations of all of the protective devices (that I kinda sorta maybe in a way knew about by using the Internet) and how to use them correctly, for me was worth the \$150 value of this book. But then Standler takes the devices you just learned all about and applies them in ways that you need. There are about 100 pages of example circuits and explanations of how to apply the devices for several different applications, such as signal circuits, DC power supplies, and on the AC mains. Standler gives so many example design circuits that you are bound to find one that works for you exactly as presented. If not -- as it was in my case -- you can take several of the ideas from separate circuits in the book and combine them for the application you need. The amount of working designs that Standler presents here is astounding.

Finally, Standler finishes the book with methods to test the overvoltage protection of your design circuit, and safety measures while working in high-voltage environments.

You may be tempted to skip the first couple sections and go right to the applications section. While worth a look to really see how many different designs he presents, it's well worth it to read this book from beginning to end. There is such a wealth of information in every chapter and every section that I do not recommend skipping any of them. It's an easy read for anyone familiar with the basics of electronic design (i.e. diodes, resistors, capacitors, inductors, op amps, etc.), so I recommend doing yourself that favor and read it from cover to cover.

One last note: Don't be fooled by the low price of the book. Under its previous publisher it did cost somewhere around \$150 like most textbooks do. However, since the previous publisher stopped publishing it, Dr. Standler and Dover Publishing have now started offering it at this low price. I've also tried another textbook, *Overvoltage Protection of Low-Voltage Systems* (Iee Power & Energy Series, 33), which cost ~\$90 when I bought it, and it was absolutely useless for me. It had no explanations or practical circuit ideas like Standler presents here.

While it's always worth it to find as many sources as you can, this is quite simply the definitive source on overvoltage protection of electronic circuits. If you think you need it, buy it. You'll know what you need to know in two weeks flat.

For perspective, I have a Bachelor of Science in electrical engineering, graduated 2007.

3 of 3 people found the following review helpful.

Excellent design resource for transient suppression.

By Dave Lorusso

If you need to protect a circuit from overvoltages, this is the book.

The book is based on the author's vast experience with overvoltage protection. Research up to and including 1989 are incorporated into the book. Mr. Standler applies the results of many scientific papers on overvoltage to the real world.

Even though it was written in 1989, the physics are still valid and can be applied today.

1 of 1 people found the following review helpful.

Authoritative reference for design of TVSS circuitry

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