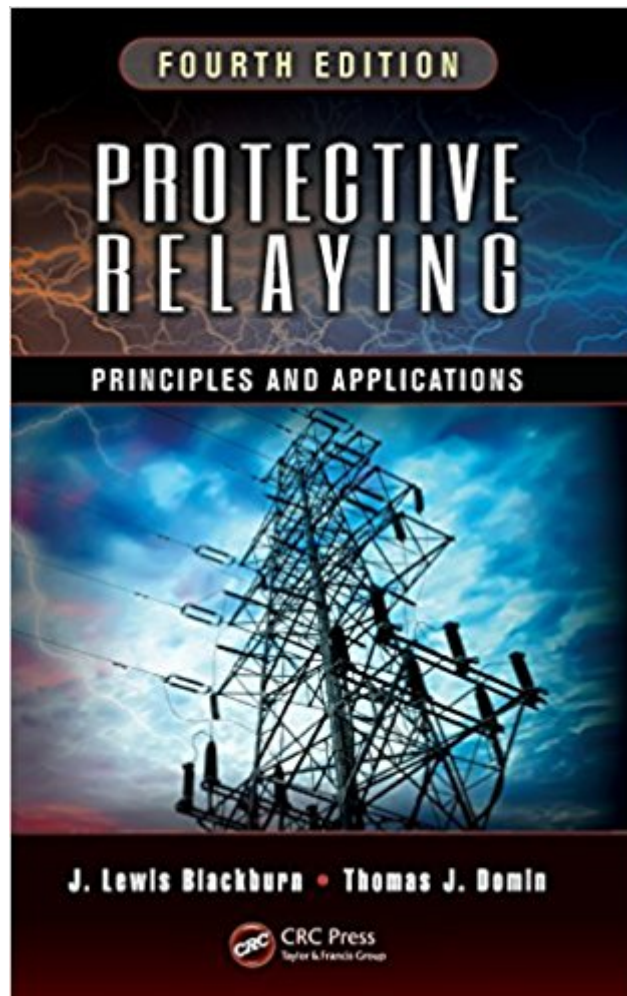




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# Protective Relaying: Principles And Applications, Fourth Edition



## Synopsis

For many years, *Protective Relaying: Principles and Applications* has been the go-to text for gaining proficiency in the technological fundamentals of power system protection. Continuing in the bestselling tradition of the previous editions by the late J. Lewis Blackburn, the Fourth Edition retains the core concepts at the heart of power system analysis. Featuring refinements and additions to accommodate recent technological progress, the text:

- Explores developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid
- Examines the regulations related to power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored
- Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis
- Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes
- Contains an expanded discussion of intertie protection requirements at dispersed generation facilities

Providing information on a mixture of old and new equipment, *Protective Relaying: Principles and Applications*, Fourth Edition reflects the present state of power systems currently in operation, making it a handy reference for practicing protection engineers. And yet its challenging end-of-chapter problems, coverage of the basic mathematical requirements for fault analysis, and real-world examples ensure engineering students receive a practical, effective education on protective systems. Plus, with the inclusion of a solutions manual and figure slides with qualifying course adoption, the Fourth Edition is ready-made for classroom implementation.

## Book Information

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## Customer Reviews

"... provides a solid foundation for the master-level student as well as power engineers new to protection principles, and it is most certainly a valuable reference for the experienced protection engineer. This book provides enough information of historical applications to aid the reader in understanding the protection in service today. The material is presented clearly with examples to provide practice of the fundamentals presented."â •Miriam P. Sanders, from IEEE Power & Energy Magazine, September/October 2015 "The book describes in a very comprehensive and efficient way main problems of power system protection. The protection principles, criteria as well as relay setting calculation rules are explained in detail, with use of many practical examples. The reader receives a book with all practical knowledge in the field in one band."â •Prof. Waldemar Rebizant, Wroclaw University of Technology, Wroclaw, PL"The book addresses interesting and timely topics. By analyzing the review materials I feel that the book is based on a proper fusion of technology and methodology. Besides, I expect that it implements an effective balance between power system protection theory and engineering practice. For this reason I lâ™d like to express a positive opinion about the book project."â •Alfredo Vaccaro, Department of Engineering University of Sannio, Benevento, Italy

Thomas J. Domin is a registered professional engineer in the state of Pennsylvania, USA. Much of his experience working with electrical power systems was gained during his 40 years at PPL, Inc., a midsized electric utility headquartered in Allentown, Pennsylvania. The scope of his work covers the development of protection standards and practices, specifications for relaying and control logic requirements for protective systems, specifications for protective relay settings, and the analysis of disturbances in electric power systems. In addition to working on electrical systems within the US, he has worked on international projects involving electrical protection and power system operations.

The book is informative and up to date but examples of worked problems are too few. The information would be more valuable with more worked examples. Also I'm very unhappy with the quality of the binding on the hardcover version which I bought. The binding to the hardcover portion started to become undone just a few days into using it. The pictures were very disappointing too. Before buying I downloaded a PDF which showed terrible quality pictures which I attributed to a poor quality scan. I bought the book and discovered were just as terrible as the PDF which means

the book is based on a terrible scan of a PDF or something else. If you're going to work in the power industry it is worth buying as it's a great reference book. Anyway, buyer beware on the poor physical quality of the printed hardcover book but the actual contents are good.

This is my most commonly used reference material on the job. I originally owned a copy of revision three but ended up getting this copy as part of a class I took. It cleans up some of the minor mistakes that the older version had and it brings some more modern references into the book but let's be serious. If you're getting this book, you're mostly getting it for the great detail provided on the principles of protective relaying which have not changed much since their origins. I think I liked the formatting of the older book more, the font, sizing, etc but I find it difficult to remove a star for that when the new one is still perfectly readable. Some of the graphics are still outdated looking and can be difficult to read but if you're already familiar with TCCs and power equipment, you'll be able to fill in the gaps. If you're not familiar, they're an overwhelming abundance of information on the internet to help. Again, I find it difficult to pull a star for that because I'm guessing anyone buying this book is buying it for the principles and not the art. To that point, there are very few printed resources that match up to Blackburn when it comes to principles of protective relaying.

It's a decent book, considering how few other books are out there on this subject. It is more of a reference book than a textbook since there aren't really any examples in the chapter. All of the problems are at the back of the book too, which is odd. Some concepts that should be covered in great detail aren't while other topics that are really specific to a system are talked about in great detail. I found it mildly annoying but nothing I couldn't deal with. Good textbook, and it's even used in the industry.

This book is great. The came with a slight bend on the cover but nothing big. This book was recommended to me by a senior electrical engineer with more than 30 years of experience. I have started reading it and I have learned a lot from it. The first few chapters cover many basics of electrical engineering calculations and theory. This is very important to read to refresh yourself on the material and better comprehend the later chapters. This book has covers real life applications and provides guidance on some grey areas that we may encounter in electrical engineering.

You have to read the book from beginning to end. If you skip ahead, you might be confused due to the fact that he makes obscure assumptions that are only mentioned once somewhere in the

droning text. Sometimes assumptions are never mentioned. You need good engineering intuition to get past the mistakes in the text. Several dated youtube videos were more helpful.

This book is more or less garbage. The basic ideas are there in the text, but the author does a very poor job of elaborating on calculations and techniques. The problems in the back of the book are vague at best, you have to make assumptions on several key parameters. If it isn't required for a course, don't get it. If it is required for a course, beg the professor to reconsider before making this the poor excuse for a textbook the basis of a course.

Had to use this book for an Electrical Engineering class of course. The book is pretty bad, but considering there are not many "good" protective relaying books out there this one was chosen. The HW questions make no sense, and unless your teacher tells you how to do it, good luck. Overall the book is poorly written.

Best place to start for power system protection. and it doesn't seem to be riddled with errors like the 3rd edition.

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