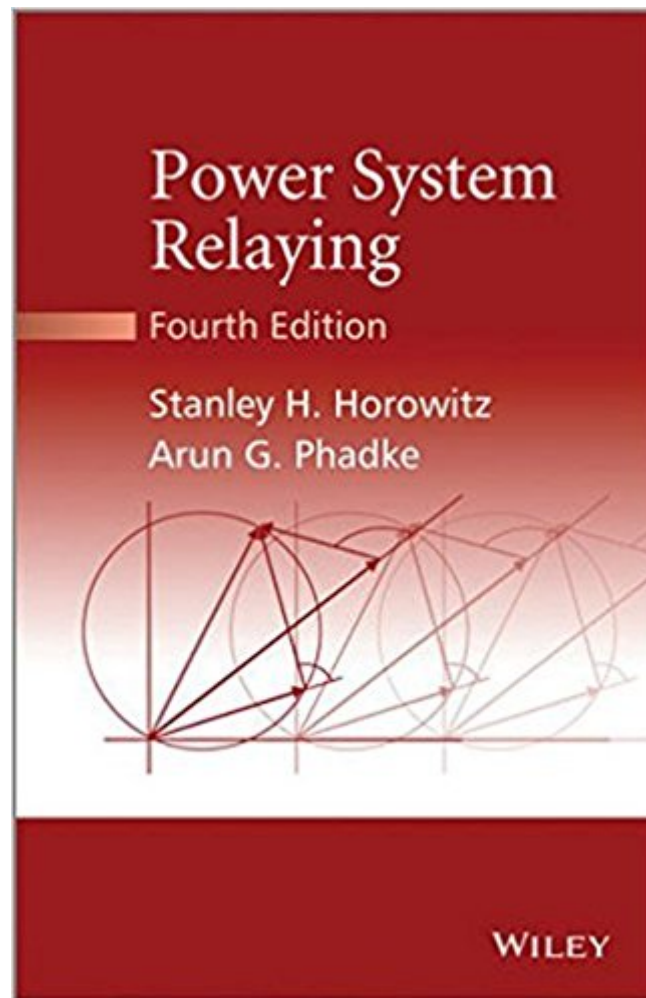




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Power System Relaying



Synopsis

With emphasis on power system protection from the network operator perspective, this classic textbook explains the fundamentals of relaying and power system phenomena including stability, protection and reliability. The fourth edition brings coverage up-to-date with important advancements in protective relaying due to significant changes in the conventional electric power system that will integrate renewable forms of energy and, in some countries, adoption of the Smart Grid initiative. New features of the Fourth Edition include: an entirely new chapter on protection considerations for renewable energy sources, looking at grid interconnection techniques, codes, protection considerations and practices. A new concepts in power system protection such as Wide Area Measurement Systems (WAMS) and system integrity protection (SIPS) -how to use WAMS for protection, and SIPS and control with WAMS. phasor measurement units (PMU), transmission line current differential, high voltage dead tank circuit breakers, and relays for multi-terminal lines. revisions to the Bus Protection Guide IEEE C37.234 (2009) and to the sections on additional protective requirements and restoration. Used by universities and industry courses throughout the world, Power System Relaying is an essential text for graduate students in electric power engineering and a reference for practising relay and protection engineers who want to be kept up to date with the latest advances in the industry.

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Customer Reviews

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textbook explains the fundamentals of relaying and power system phenomena including stability, protection, and reliability. The fourth edition brings coverage up to date with important advancements in protective relaying due to significant changes in the conventional electric power system that will integrate renewable forms of energy and, in some countries, adoption of the Smart Grid initiative. New features of the fourth edition include:• an entirely new chapter on protection considerations for renewable energy sources, looking at grid interconnection techniques, codes, protection considerations, and practices new concepts in power system protection, such as Wide Area Measurement Systems (WAMS) and system integrity protection schemes (SIPS)• how to use WAMS for protection, and SIPS and control with WAMS phasor measurement units (PMUs), transmission line current differential, high-voltage dead-tank circuit breakers, and relays for multiterminal lines revisions to the Bus Protection Guide IEEE C37.234 (2009) and to the sections on additional protective requirements and restoration. Used by universities and industry courses throughout the world, Power System Relaying is an essential text for graduate students in electric power engineering and a reference for practising relay and protection engineers who want to be kept up to date with the latest advances in the industry.

Great book for getting some relay and configurations first book i bought so this is currently my base line

I had high hopes for this book since the reviews for the second edition were decent, but I just finished reading the first chapter of edition 3 and so far I'm very disappointed. The book mentions certain procedures and arrangements, but doesn't explain anything well. The questions at the end of the chapter seem out of place since no procedure is explained. The first question asks the students to write a computer program to solve a problem. WHAT? I can program fine, but even simple programs take time and effort to write. Other questions asks the student to calculate the fault currents for systems, but there no example given in the short 18-page chapter 1.

This book provides an overview of relaying technologies and protection schemes from a high level. The readers may need to notice that it is not a textbook for beginners, the depth and width of the content assumes sufficient background in power system protection. For more systematic study of all the relay's physical structures and other fundamentals, other texts will be more suitable. The book, however, provides a perspective from the system (instead of focusing on specific components). Chapter 10 to 15 is state-of-art in power system protection, and not available as comprehensive in

any other books according to my knowledge. It provides literature guidelines and research indications in a concise and systematic way. In conclusion, it is a book for advanced readers, researchers and people interested in developing an understanding of key component in relaying technology. It may be a little absurd to serve as a beginner's textbook.

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