



# Protective Relaying for Power Generation Systems (Power Engineering (Willis))

By Donald Reimert

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## Protective Relaying for Power Generation Systems (Power Engineering (Willis)) By Donald Reimert

Power outages have considerable social and economic impacts, and effective protection schemes are crucial to avoiding them. While most textbooks focus on the transmission and distribution aspects of protective relays, Protective Relaying for Power Generation Systems is the first to focus on protection of motors and generators from a power generation perspective. It also includes workbook constructions that allow students to perform protection-related calculations in Mathcad® and Excel®.

This text provides both a general overview and in-depth discussion of each topic, making it easy to tailor the material to students' needs. It also covers topics not found in other texts on the subject, including detailed time decrement generator fault calculations and minimum excitation limit. The author clearly explains the potential for damage and damaging mechanisms related to each protection function and includes thorough derivations of complex system interactions. Such derivations underlie the various rule-of-thumb setting criteria, provide insight into why the rules-of-thumb work and when they are not appropriate, and are useful for post-incident analysis. The book's flexible approach combines theoretical discussions with example settings that offer quick how-to information.

Protective Relaying for Power Generation Systems integrates fundamental knowledge with practical tools to ensure students have a thorough understanding of protection schemes and issues that arise during or after abnormal operation.

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#### **Review**

*"...covers a wide range of topics and can help the reader to achieve basic understanding or deep knowledge of generator and motor protection, thus meeting the needs of both students and professionals... The author... has worked for more than 35 years in the design not only of generator and motor protection systems, but also substation, transmission, and distribution facilities. His system planning experience as well as the preparation and teaching of different protection related courses at the University of Wisconsin-Milwaukee allow him to present the material in the book in a clear and practical manner."*

*?PAC World Magazine*

"Power engineers and application engineers who work with generator protective devices as well as power engineering students would find this book to be a great hands-on reference that reveals a wealth of information on generator protective relaying for power systems."

– John J. Shea, in *IEEE Electrical Insulation Magazine*, September/October 2007, Vol. 23, No. 5

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