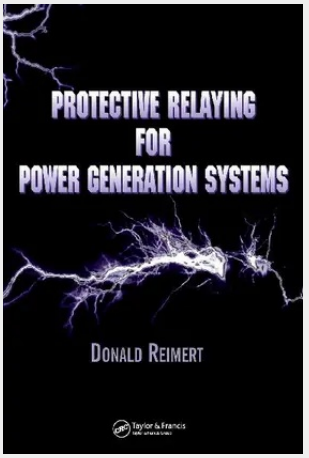
Reimert

Protective Relaying for Power Generation Systems



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.

Organizing material in a structure that allows for quick and easy reference, Protective Relaying for Power Generation Systems features an in-depth presentation of topics and specific information related to generators and motors. This book provides coverage of protective component considerations, including explanations of potential damage. It explores a broad range of subjects including detailed time decrement generator fault calculations and minimum excitation limits. The text contains Excel® and Mathcad® workbook constructions for performing protection-related calculations. This is a valuable resource for electric utility engineers and those working in the power industry and at generation facilities.

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