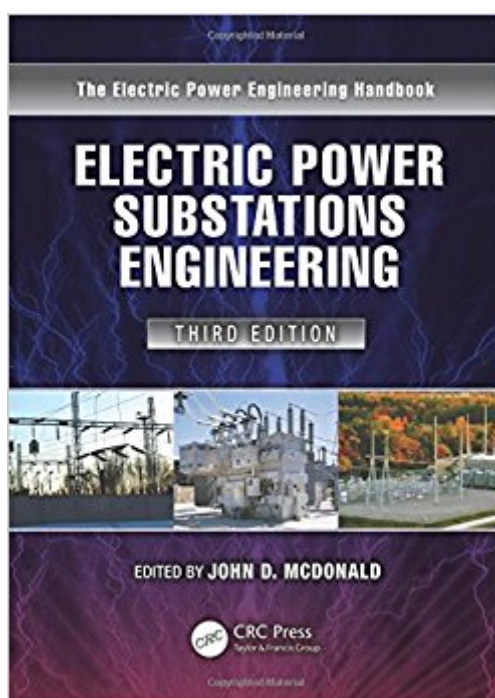


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# Electric Power Substations Engineering, Third Edition (Electrical Engineering Handbook)



## Synopsis

The use of electric power substations in generation, transmission, and distribution remains one of the most challenging and exciting areas of electric power engineering. Recent technological developments have had a tremendous impact on all aspects of substation design and operation. With 80% of its chapters completely revised and two brand-new chapters on energy storage and Smart Grids, *Electric Power Substations Engineering, Third Edition* provides an extensive updated overview of substations, serving as a reference and guide for both industry and academia. Contributors have written each chapter with detailed design information for electric power engineering professionals and other engineering professionals (e.g., mechanical, civil) who want an overview or specific information on this challenging and important area. This book:

- Emphasizes the practical application of the technology
- Includes extensive use of graphics and photographs to visually convey the book's concepts
- Provides applicable IEEE industry standards in each chapter
- Is written by industry experts who have an average of 25 to 30 years of industry experience
- Presents a new chapter addressing the key role of the substation in Smart Grids

Editor John McDonald and this very impressive group of contributors cover all aspects of substations, from the initial concept through design, automation, and operation. The book's chapters—which delve into physical and cyber-security, commissioning, and energy storage—are written as tutorials and provide references for further reading and study. As with the other volumes in the *Electric Power Engineering Handbook* series, this book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. Several chapter authors are members of the IEEE Power & Energy Society (PES) Substations Committee and are the actual experts who are developing the standards that govern all aspects of substations. As a result, this book contains the most recent technological developments in industry practice and standards. Watch John D. McDonald talk about his book [A volume in the Electric Power Engineering Handbook, Third Edition](#). Other volumes in the set: K12642 *Electric Power Generation, Transmission, and Distribution, Third Edition* (ISBN: 9781439856284) K12648 *Power Systems, Third Edition* (ISBN: 9781439856338) K13917 *Power System Stability and Control, Third Edition* (ISBN: 9781439883204) K12643 *Electric Power Transformer Engineering, Third Edition* (ISBN: 9781439856291)

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## Customer Reviews

John D. McDonald is an affiliate of GE Energy in Duluth, Georgia, USA.

It's just a descriptive text of power substations. No engineering tools can be obtained after reading this book. No designer will find out formulas, charts, etc useful for designing. Some good pictures but not a book to consult if problems arise. No mathematical foundations are provided. It can't be considered neither a text nor a manual. Just a collection of good general articles describing different aspects of power substations.

The book was damaged when it arrived. So I had to return it.

This textbook will help people get familiar with an overview of a substation, and it is not a difficult book to understand at all. The writer does an excellent job of explaining as best as possible for any level engineer. I definitely recommend this for anyone starting their career in this industry.

It is a easy book to read, very clear and give you the main idea about the how the substation works.

This book is just good for undergrad students who want to have some ideas about substations and i don't think it is a useful tool for professional engineers. Not a single word about bus work and insulation coordination.Nothing useful about protection.

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