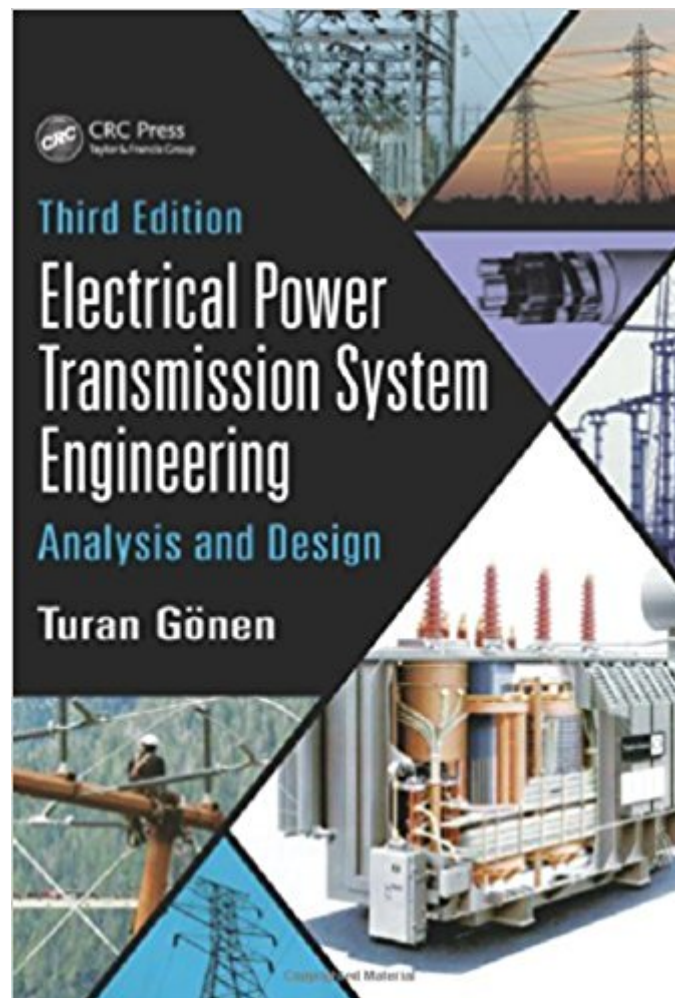




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# Electrical Power Transmission System Engineering: Analysis And Design, Third Edition



## Synopsis

Electrical Power Transmission System Engineering: Analysis and Design is devoted to the exploration and explanation of modern power transmission engineering theory and practice. Designed for senior-level undergraduate and beginning-level graduate students, the book serves as a text for a two-semester course or, by judicious selection, the material may be condensed into one semester. Written to promote hands-on self-study, it also makes an ideal reference for practicing engineers in the electric power utility industry. Basic material is explained carefully, clearly, and in detail, with multiple examples. Each new term is defined as it is introduced. Ample equations and homework problems reinforce the information presented in each chapter. A special effort is made to familiarize the reader with the vocabulary and symbols used by the industry. Plus, the addition of numerous impedance tables for overhead lines, transformers, and underground cables makes the text self-contained. The Third Edition is not only up to date with the latest advancements in electrical power transmission system engineering, but also:

- Provides a detailed discussion of flexible alternating current (AC) transmission systems
- Offers expanded coverage of the structures, equipment, and environmental impacts of transmission lines
- Features additional examples of shunt fault analysis using MATLAB®

Also included is a review of the methods for allocating transmission line fixed charges among joint users, new trends and regulations in transmission line construction, a guide to the Federal Energy Regulatory Commission (FERC) electric transmission facilities permit process and Order No. 1000, and an extensive glossary of transmission system engineering terminology. Covering the electrical and mechanical aspects of the field with equal detail, *Electrical Power Transmission System Engineering: Analysis and Design, Third Edition* supplies a solid understanding of transmission system engineering today.

## Book Information

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## Customer Reviews

"This comprehensive book will benefit the practicing power engineer or student who wants to teach himself. It is well-suited for self-study because it contains background theory for each topic covered, and numerous numerical examples and problems crafted to apply the information presented. The appendix is filled with tables of data pertaining to overhead lines, transformers, underground cables, costing, regulations, definitions, unit conversions, and MATLAB® examples. All this information in one place makes this book an excellent reference for the practicing power engineer. It will be useful for many years." •John J. Shea, Eaton Corporation, Moon Township, Pennsylvania, USA, from IEEE Electrical Insulation Magazine, May/June 2015 "â |Good balance between mathematical background and practical applicationsâ |The text provides a good review of the key issues in transmission system design and is suitable for courses where not all students have deep background knowledge of the subject."â "â "James Pilgrim, University of Southampton, UK "This book provides an excellent balance between theory and practical application. It gives the student a good introduction to the equipment used in power systems, how they operate, and why they are in the form we find them. There are many practical examples included and clear explanations. I like the way that industry standards and current practices are introduced and explained. Most students do not have a familiarity with the equipment used in the power system, and this work bridges that gap and provides a clear picture of how the pieces work together."â "â "Sheppard Salon, Rensselaer Polytechnic Institute, Troy, New York, USA

Turan GÃ¶nen received a BS and MS from Istanbul Technical College, MS and two Ph.Ds from Iowa State University, and MBA from University of Oklahoma. He has held positions at University of Missouriâ "Columbia, University of Missouriâ "Rolla, University of Oklahoma, Iowa State University, Florida International University, and Ankara Technical College; served as a design engineer and consultant in US and international power industries; and written over 100 technical papers and five books. An IEEE fellow and IIE senior member, he is currently professor of electrical engineering and director of the Electrical Power Educational Institute at California State University, Sacramento.

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