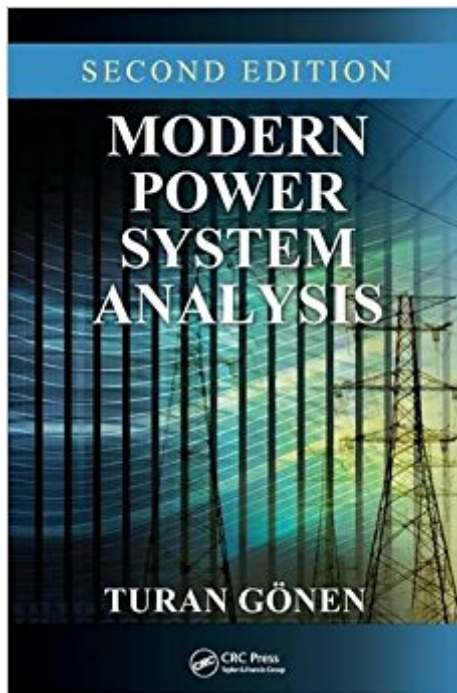




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# Modern Power System Analysis, Second Edition



## Synopsis

Most textbooks that deal with the power analysis of electrical engineering power systems focus on generation or distribution systems. Filling a gap in the literature, *Modern Power System Analysis*, Second Edition introduces readers to electric power systems, with an emphasis on key topics in modern power transmission engineering. Throughout, the book familiarizes readers with concepts and issues relevant to the power utility industry. A Classroom-Tested Power Engineering Text That Focuses on Power Transmission Drawing on the author's industry experience and more than 42 years teaching courses in electrical machines and electric power engineering, this book explains the material clearly and in sufficient detail, supported by extensive numerical examples and illustrations. New terms are defined when they are first introduced, and a wealth of end-of-chapter problems reinforce the information presented in each chapter. Topics covered include: Power system planning Transmission line parameters and the steady-state performance of transmission lines Disturbance of system components Symmetrical components and sequence impedances Analysis of balanced and unbalanced faults including shunt, series, and simultaneous faults Transmission line protection Load-flow analysis Designed for senior undergraduate and graduate students as a two-semester or condensed one-semester text, this classroom-tested book can also be used for self-study. In addition, the detailed explanations and useful appendices make this updated second edition a handy reference for practicing power engineers in the electrical power utility industry.

**What's New in This Edition** 35 percent new material Updated and expanded material throughout Topics on transmission line structure and equipment Coverage of overhead and underground power transmission Expanded discussion and examples on power flow and substation design Extended impedance tables and expanded coverage of per unit systems in the appendices New appendix containing additional solved problems using MATLAB® New glossary of modern power system analysis terminology

## Book Information

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"This book offers a comprehensive coverage of all classical topics in power system analysis such as basic concepts of three AC circuits and per unit calculation, transmission line, power flow analysis, fault analysis and protection system etc. This second edition is a modern update of the book, which features clear and easy-to-understand text ideally suited for power system analysis courses at senior undergraduate level and graduate level." •Dr. Zhao Xu, The Hong Kong Polytechnic University, Hung Hom, Kowloon "... the book provides a fresh perspective." •Walid Hubbi, New Jersey Institute of Technology (NJIT), USA "This book is written specifically for the study of modern power systems with emphasis on power-transmission engineering. It introduces the reader to concepts and issues relevant to the power utility industry. ... In using this book, the reader will gain a very good understanding of power engineering fundamentals, from understanding and being able to use symmetrical component theory to writing MATLAB code for power-flow analysis. This book is well written and has numerous illustrations and worked out examples to reinforce learning. The book could be used in a senior-level undergraduate class or graduate-level class in power engineering as well as by practicing engineers in a power utility or others who may want to teach themselves."--John J. Shea, IEEE Electrical Insulation Magazine

Turan Gnen is currently a professor of electrical engineering and director of the Electrical Power Educational Institute at California State University, Sacramento. He has taught electrical machines and electric power engineering for more than 39 years. Dr. Gnen also has a strong background in the power industry; for eight years he worked as a design engineer in numerous companies both in the United States and abroad. He has been a consultant for the United Nations Industrial Development Organization (UNIDO), Aramco, Black & Veatch Consultant Engineers, and the public utility industry. Dr. Gnen has written more than 100 technical papers as well as several books. He is a Life Fellow member of the IEEE and the Institute of Industrial Engineers.

Great book on power system analysis, focused on utility transmission systems. This includes a topic

on system protection that great. I recommend this book for its clarity of presentation.

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