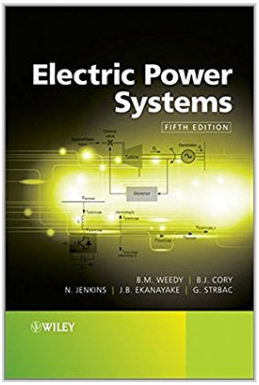

Electric Power Systems

By B. M. Weedy, B. J. Cory, N. Jenkins, Janaka B. Ekanayake, Goran Strbac

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The definitive textbook for Power Systems students, providing a grounding in essential power system theory while also focusing on practical power engineering applications.

Electric Power Systems has been an essential book in power systems engineering for over thirty years. Bringing the content firmly up-to-date whilst still retaining the flavour of Weedy's extremely popular original, this *Fifth Edition* has been revised by experts Nick Jenkins, Janaka Ekanayake and Goran Strbac. This wide-ranging text still covers all of the fundamental power systems subjects but is now expanded to cover increasingly important topics like climate change and renewable power generation. Updated material includes an analysis of today's markets and an examination of the current economic state of power generation. The physical limits of power systems equipment - currently being tested by the huge demand for power - is explored, and greater attention is paid to power electronics, voltage source and power system components, amongst a host of other updates and revisions.

- Supplies an updated chapter on power system economics and management issues and extended coverage of power system components. Also expanded information on power electronics and voltage source, including VSC HVDC and FACTS.
- Updated to take into account the challenges posed by different world markets, and pays greater attention to up-to-date renewable power generation methods such as wind power.
- Includes modernized presentation and greater use of examples to appeal to today's students, also retains the end of chapter questions to assist with the learning process. Also shows students how to apply calculation techniques.

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Editorial Review

From the Back Cover
Electric power systems are going through a period of dramatic change with the need to reduce environmental impact, provide a secure supply of power to an increasing world population while aging infrastructure and equipment in many established systems needs replacing. Today's student has to understand both the large amount of plant and equipment that is in use as well as the possibilities offered by new technologies.

Now comprehensively updated and revised, the fifth edition of this classic textbook provides a modern foundation in power systems engineering. The emphasis on practical analysis, modeling and fundamental principles, so successful in previous editions, is retained together with broad coverage of the subject while avoiding complex mathematics. Throughout, the worked examples and computer simulations used to explain concepts and calculation techniques have been modernised, as have all figures.

Features of the fifth edition:

- Examples of the use of power system simulation programs illustrating fundamental principles
- Revised chapters on load flow, systems stability and electrical transients
- Extended coverage of developments in HVDC including the use of voltage source converters
- A new chapter on power system economics
- Examination of substations and Gas Insulated Switchgear
- Extensive worked examples and end-of-chapter problems to facilitate learning

For instructors and teachers, solutions to the problems set out in the book can be found on the companion website.

Offering enhanced, clear and concise explanation of practical applications, this updated edition will ensure that *Electric Power Systems* continues to be an invaluable resource for senior undergraduates in electrical engineering.

Users Review

From reader reviews:

Christina Bain:

Have you spare time for the day? What do you do when you have considerably more or little spare time? That's why, you can choose the suitable activity for spend your time. Any person spent all their spare time to take a wander, shopping, or went to the Mall. How about open or read a book entitled Electric Power Systems? Maybe it is to be best activity for you. You realize beside you can spend your time with your favorite's book, you can smarter than before. Do you agree with it is opinion or you have various other opinion?

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