

What are some good books about electric power systems?

Wood, A.J. and Wollenberg, B.F. Power Generation Operation and Control. New York: John Wiley & Sons, Inc., 1974. Yamayee, Z.A. Electromechanical Energy Devices and Power Systems. New York: John Wiley & Sons, Inc., 1994. Yu, Yao-nan. Electric Power Systems Dynamics. New York: Academic Press, 1983.

What are some good books about electric machines?

Nasar, S.A., Ed., Handbook of Electric Machines, McGraw-Hill, New York, 1987. Patrick, D.R. and Fardo, S.W., Rotating Electrical Machines and Power Systems, Prentice-Hall, Englewood Cliffs, NJ, 1985. Ramshaw, R. and Van Heeswijk, R.G., Energy Conversion: Electric Motors and Generators, Saunders College Publishing, Orlando, FL, 1990.

Who should read the Electric Power Engineering Handbook?

The chapters are written primarily for the electric power engineering professional who is seeking factual information, and secondarily for the professional from other engineering disciplines who wants an overview of the entire field or specific information on one aspect of it. The handbook is published in five volumes.

What can a nonelectrical engineering student learn from this book?

This book aims to give university teachers support to teach nonelectrical engineering students all they need to know about basic electric phenomena, circuits, and electric machines and drives, as well as the basics of electric safety and an introduction to how large power systems are built and operated.

What is a good book on power system planning?

Sullivan, R. Power System Planning. New York: McGraw-Hill, 1977. Taylor, C.W. Power System Voltage Stability. New York: McGraw-Hill, 1977. U.S.-Canada Power System Outage Task Force. (2004) Final Report on the August 14, 2003 Blackout in the United States and Canada: Causes and Recommendations. [Online].

What is a common electric power system design practice?

Common electric power system design practice strives to have the system remain functional for (N - I) contingency (one major power system element taken out of service: a transmission line, major generation source, or transmission transformer) and not for the sequence of low probability disturbances.

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These books are valuable resources for students starting their education in electrical engineering, as well as for experienced professionals looking to update their knowledge in this constantly evolving field. Download your free PDF ...

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Fundamentals of electric power engineering : engineering: from electromagnetics to power systems / Massimo Ceraolo, Davide Poli. pages cm Summary: "Covers topics such as: circuits, electrical machines and drives, power electronics, power system basics. new generation technologies"- Provided by publisher.

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Electrical Power Systems provides comprehensive, foundational content for a wide range of topics in power system operation and control. With the growing importance of grid integration of renewables and the interest in smart grid technologies it is more important than ever to understand the fundamentals that underpin electrical power systems.

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The chapter fundamentals will aid in a better understanding of the remaining chapters. Electric power systems were initially developed as small direct current (DC) systems that were sold to factories for industrial and mining use. The first electric power system was established in 1882 by Thomas Edison.

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