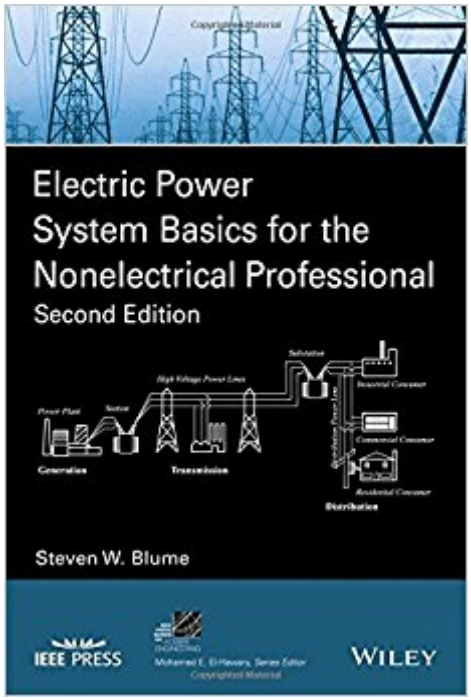
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Electric Power System Basics For The Nonelectrical Professional (IEEE Press Series On Power Engineering)



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Synopsis

The second edition of Steven W. BlumeÃ¢â ¬â„¢s bestseller provides a comprehensive treatment of power technology for the non-electrical engineer working in the electric power industry This book aims to give non-electrical professionals a fundamental understanding of large interconnected electrical power systems, better known as the Ã¢â ¬Å“Power GridÃ¢â ¬Â•, with regard to terminology, electrical concepts, design considerations, construction practices, industry standards, control room operations for both normal and emergency conditions, maintenance, consumption, telecommunications and safety. The text begins with an overview of the terminology and basic electrical concepts commonly used in the industry then it examines the generation, transmission and distribution of power. Other topics discussed include energy management, conservation of electrical energy, consumption characteristics and regulatory aspects to help readers understand modern electric power systems. This second edition features:Ã Â New sections on renewable energy, regulatory changes, new measures to improve system reliability, and smart technologies used in the power grid systemÃ Â Updated practical examples, photographs, drawing, and illustrations to help the reader gain a better understanding of the material Ã¢â ¬Å“Optional supplementary readingÃ¢â ¬Â• sections within most chapters to elaborate on certain concepts by providing additional detail or background Electric Power System Basics for the Nonelectrical Professional, Second Edition, gives business professionals in the industry and entry-level engineers a strong introduction to power technology in non-technical terms.Ã Â Steve W. Blume is Founder of Applied Professional Training, Inc., APT Global, LLC, APT College, LLC and APT Corporate Training Services, LLC, USA.Ã Â Steve is a registered professional engineer and certified NERC Reliability Coordinator with a Master's degree in Electrical Engineering specializing in power and a Bachelor's degree specializing in Telecommunications. He has more than 25 yearsÃ¢â ¬â„¢ experience teaching electric power system basics to non-electrical professionals.Ã Â Steve's engineering and operations experience includes generation, transmission, distribution, and electrical safety.Ã Â He is an active senior member in IEEE and has published two books in power systems through IEEE and Wiley.

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This is a reader-friendly source book for anyone who wants better high-level understanding of electric power systems. Loaded with illustrative images and simple diagrams, this is an excellent supplement for a student or curious layman.

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