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Electrical Power System Essentials

By Pieter Schavemaker, Lou van der Sluis

John Wiley and Sons Ltd. Hardback. Book Condition: new. BRAND NEW, Electrical Power System Essentials, Pieter Schavemaker, Lou van der Sluis, Much of the basic hardware that generates, transmits and distributes electricity has changed little over the past century. However, the techniques applied in the power system have advanced, leading to greater transformer efficiency and more economic transmission and distribution. As the demand for electricity in both the developed and developing world increases, governments and electricity providers continue to look for alternative means of creating energy through renewable sources. Today's needs also include well-designed systems that are capable of producing large quantities of electricity in the safest, most cost-effective way for the benefit of both individuals and industry. This book provides an accessible introduction to the interesting world of alternating current (AC) power systems, focusing on the system as a whole. After laying out the basics for a steady-state analysis of three-phase power systems, the book examines:* the generation, transmission, distribution, and utilization of electric energy;* the principles of thermal, nuclear and renewable energy plants;* power system control and operation;* the organization of electricity markets, the changes currently taking place, and the developments that could lead to alternative power systems...



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