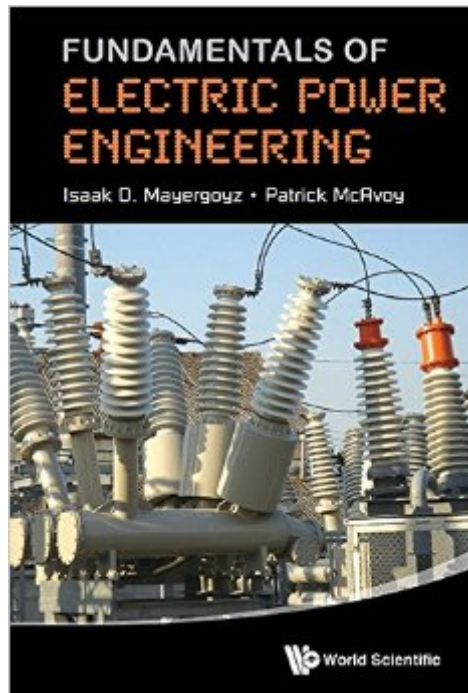


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Fundamentals Of Electric Power Engineering



Synopsis

Electric power engineering has always been an integral part of electrical engineering education. Providing a unique alternative to existing books on the market, this text presents a concise and rigorous exposition of the main fundamentals of electric power engineering. Contained in a single volume, the materials can be used to teach three separate courses – electrical machines, power systems and power electronics, which are in the mainstream of the electrical engineering curriculum of most universities worldwide. The book also highlights an in-depth review of electric and magnetic circuit theory with emphasis on the topics which are most relevant to electric power engineering.

Contents: Review of Electric and Magnetic Circuit Theory: Basic Electric Circuit Theory Analysis of Electric Circuits with Periodic Non-sinusoidal Sources Magnetic Circuit Theory Power Systems: Introduction to Power Systems Fault Analysis Transformers Synchronous Generators Power Flow Analysis and Stability of Power Systems Induction Machines Power Electronics: Power Semiconductor Devices Rectifiers Inverters DC-to-DC Converters (Choppers)

Key Features: This is an artistically-designed compact reader which explains the idea of universities. Prominent authors from Cambridge, Berkeley, Melbourne, and Singapore have contributed four evocative readings that have been written in a conversationally thought-provoking manner. The challenges that universities face in this day and age are re-defined and they are not presented as pre-defined notions.

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