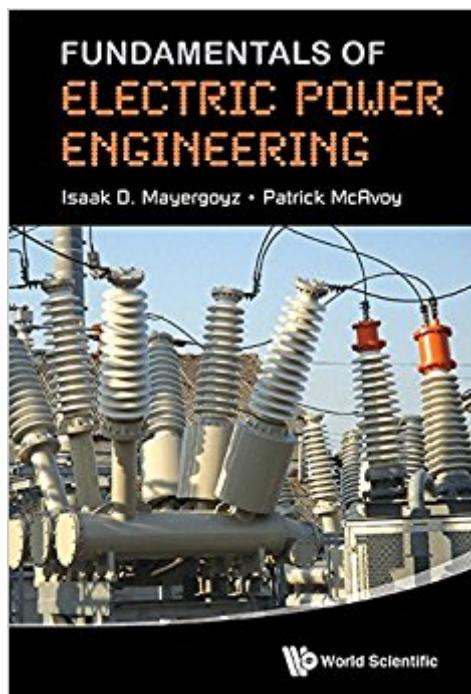


The book was found

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 univer-cities. 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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