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Computer-Aided Analysis Of Electric Machines: A Mathematica Approach

Computer-aided Analysis of Electric Machines

Ostovic

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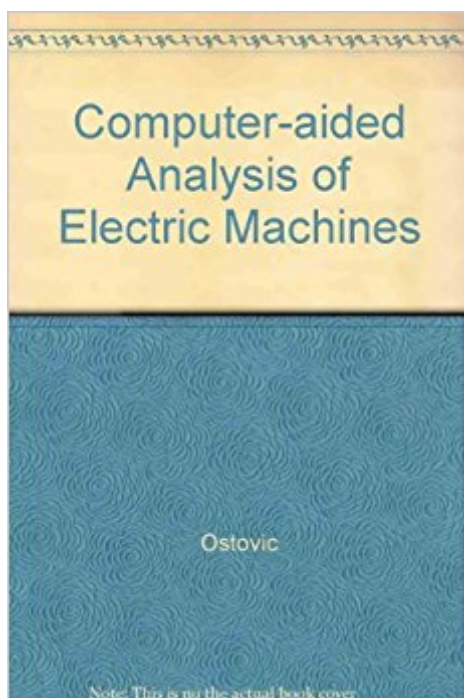
Synopsis

This text is intended for undergraduate and graduate students on electric machines, electric drives and power systems courses in departments of electrical engineering. The text contains all the theory necessary for the understanding of electric machines. The application of mathematical algorithms in the book allows the reader to concentrate on the physical aspects of electric machines operation. The text: features coverage of three-dimensional analysis of the air gap quantities; gives the analysis of harmonic torque components in all types of electric machines, fed from sinusoidal or power electronic sources; provides numerical solution for circuits with nonlinear magnetic material, including hysteresis effects; and contains numerical analysis of transients in electric machines.

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Customer Reviews

This book provides all the theory necessary for understanding electric machines. It applies Mathematica algorithms throughout allowing the reader to concentrate fully on the physical aspects of electric machines operations.

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