



Electrical Machine Analysis Using Finite Elements (Power Electronics and Applications Series)

Nicola Bianchi

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From the fan motor in your PC to precision control of aircraft, electrical machines of all sizes, varieties, and levels of complexity permeate our world. Some are very simple, while others require exacting and application-specific design. *Electrical Machine Analysis Using Finite Elements* provides the tools necessary for the analysis and design of any type of electrical machine by integrating mathematical/numerical techniques with analytical and design methodologies.

Building successively from simple to complex analyses, this book leads you step-by-step through the procedures and illustrates their implementation with examples of both traditional and innovative machines. Although the examples are of specific devices, they demonstrate how the procedures apply to any type of electrical machine, introducing a preliminary theory followed by various considerations for the unique circumstance. The author presents the mathematical background underlying the analysis, but emphasizes application of the techniques, common strategies, and obtained results. He also supplies codes for simple algorithms and reveals analytical methodologies that universally apply to any software program.

With step-by-step coverage of the fundamentals and common procedures, *Electrical Machine Analysis Using Finite Elements* offers a superior analytical framework that allows you to adapt to any electrical machine, to any software platform, and to any specific requirements that you may encounter.

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