



Design of Rotating Electrical Machines

Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova

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In one complete volume, this essential reference presents an in-depth overview of the theoretical principles and techniques of electrical machine design. This book enables you to design rotating electrical machines with its detailed step-by-step approach to machine design and thorough treatment of all existing and emerging technologies in this field. Senior electrical engineering students and postgraduates, as well as machine designers, will find this book invaluable. In depth, it presents the following: * Machine type definitions; different synchronous, asynchronous, DC, and doubly salient reluctance machines. * An analysis of types of construction; external pole, internal pole, and radial flux machines. * The properties of rotating electrical machines, including the insulation and heat removal options. Responding to the need for an up-to-date reference on electrical machine design, this book includes exercises with methods for tackling, and solutions to, real design problems. A supplementary website hosts two machine design examples created with MATHCAD: rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations. Classroom tested material and numerous graphs are features that further make this book an excellent manual and reference to the topic.

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