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## Design of Rotating Electrical Machines (Hardback)

By Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova

John Wiley Sons Inc, United States, 2013. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book. In one complete volume, this essential reference presents an in-depth overview of the theoretical principles and techniques of electrical machine design. This timely new edition offers up-to-date theory and guidelines for the design of electrical machines, taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines. New coverage includes: \* Brand new material on the ecological impact of the motors, covering the eco-design principles of rotating electrical machines \* An expanded section on the design of permanent magnet synchronous machines, now reporting on the design of tooth-coil, high-torque permanent magnet machines and their properties \* Large updates and new material on synchronous reluctance machines, air-gap inductance, losses in and resistivity of permanent magnets (PM), operating point of loaded PM circuit, PM machine design, and minimizing the losses in electrical machines> \* End-of-chapter exercises and new direct design examples with methods 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. Also a MATLAB code for optimizing...



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