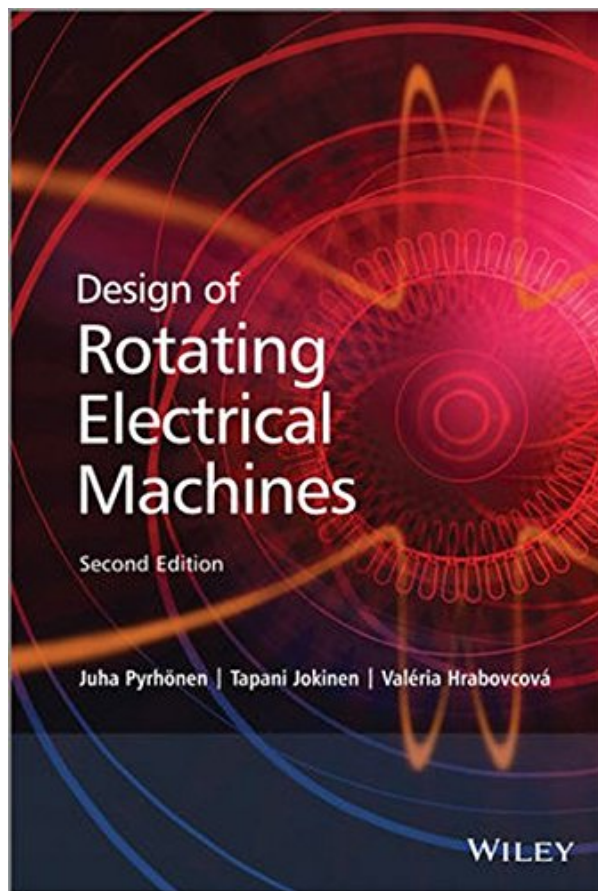
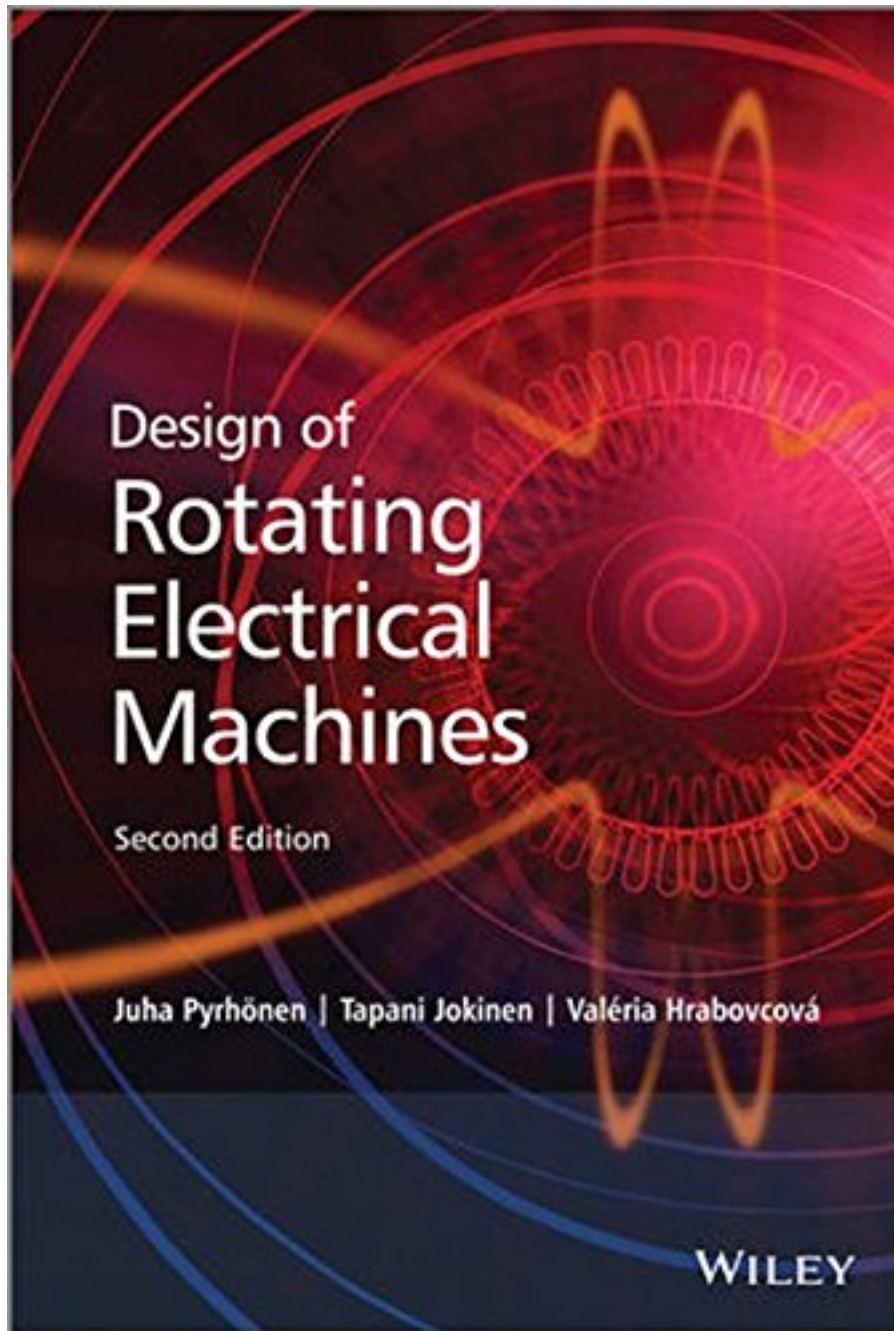


DESIGN OF ROTATING ELECTRICAL MACHINES BY JUHA PYRHONEN, TAPANI JOKINEN, VALERIA HRABOVCOVA



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Design Of Rotating Electrical Machines By Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova. In undertaking this life, lots of people constantly attempt to do and obtain the most effective. New understanding, experience, lesson, and also every little thing that can boost the life will be done. Nonetheless, lots of people in some cases feel puzzled to get those points. Really feeling the restricted of experience and also sources to be better is one of the does not have to possess. Nonetheless, there is a quite easy thing that can be done. This is what your instructor always manoeuvres you to do this one. Yeah, reading is the answer. Checking out a book as this Design Of Rotating Electrical Machines By Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova as well as other references could improve your life high quality. Exactly how can it be?

Review

“The insight gained by this book will provide the reader with an advantage in understanding the inner workings of motors and to be able to optimize designs for maximum efficiency.” (IEEE Electrical Insulation Magazine, 1 November 2014)

From the Back Cover

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 hosting 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 the design of an induction motor is provided.

Outlining a step-by-step sequence of machine design, this book enables electrical machine designers to design rotating electrical machines. With a thorough treatment of all existing and emerging technologies in the field, it is a useful manual for professionals working in the diagnosis of electrical machines and drives. A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students, postgraduates, researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion.

About the Author

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Valéria Hrabovcová University of Žilina, Slovakia

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3 of 3 people found the following review helpful.

Very, very good but not perfect

By Bill Freeman

Let me first state what I liked in this book:

- (1.) The book exhaustively covers a very broad range of topics.
- (2.) There are many worked example problems.
- (3.) And best of all, the worked examples are highly detailed, not simple plug-in equations. These exercises really reinforced my understanding of each subject, and are the best I've ever seen.
- (4.) The important machine types are contrasted effectively.

However, all is not perfect. I found the verbal discussions to be often less than illuminating and many of the derivations suffered from magical leaps of intuition. The subject is admittedly deep, but I was hoping that the authors would state things more clearly given their deep understanding of machines. OK, this is a quibble, but it is a distinction I make between being a 4* or 5* book.

You will learn a lot from this book, and really, I have not found a better one on the subject (and I have tried!).

0 of 1 people found the following review helpful.

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