



Permanent Magnet Brushless DC Motor Drives and Controls

By Chang-liang Xia

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Permanent Magnet Brushless DC Motor Drives and Controls By Chang-liang Xia

An advanced introduction to the simulation and hardware implementation of BLDC motor drives

A thorough reference on the simulation and hardware implementation of BLDC motor drives, this book covers recent advances in the control of BLDC motor drives, including intelligent control, sensorless control, torque ripple reduction and hardware implementation. With the guidance of the expert author team, readers will understand the principle, modelling, design and control of BLDC motor drives. The advanced control methods and new achievements of BLDC motor drives, of interest to more advanced readers, are also presented. Focuses on the control of PM brushless DC motors, giving readers the foundations to the topic that they can build on through more advanced reading

- Systematically guides readers through the subject, introducing basic operational principles before moving on to advanced control algorithms and implementations
- Covers special issues, such as sensorless control, intelligent control, torque ripple reduction and hardware implementation, which also have applications to other types of motors
- Includes presentation files with lecture notes and Matlab 7 coding on a companion website for the book

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Editorial Review

From the Back Cover

In *Permanent Magnet Brushless DC Motor Drives and Controls*, Xia provides a thorough reference on the simulation and hardware implementation of brushless direct-current (BLDC) motor drives. Throughout the book, the author guides readers to a greater understanding the fundamental principles, modeling, design, and control of BLDC motor drives, while presenting advanced control methods of interest to more experienced readers. Given the advantages of the technology, permanent magnet BLDC motors are being used in an increasing number of applications, especially those requiring a high level of accuracy and performance. It is therefore a technology of rising importance for anybody working in motors and control.

- Focuses on control aspects, giving readers a thorough grounding in the topic
- Systematically guides readers through the subject, introducing basic operational principles before moving on to advanced control algorithms and implementations
- Covers special issues, such as sensorless control, intelligent control, torque ripple reduction and hardware implementation, which also have applications to other types of motors
- Provides MATLAB® 7 codes from the book's companion website
- Offers presentation files with lecture notes for instructors

This book is ideal for engineers and designers directly involved in the control of BLDC motor drives. Electrical engineering students, electrical technicians, and control engineers can also use this book as an introduction to key BLDC motor drive concepts.

Companion website for the book:

www.wiley.com/go/xia/dcmotor

Users Review

From reader reviews:

Mindy Marcotte:

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