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Permanent Magnet Brushless DC Motor Drives and Controls

Chang-liang Xia

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Permanent Magnet Brushless DC Motor Drives and Controls 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
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