



Applied Control of Electrical Drives: Real Time Embedded and Sensorless Control using VisSim(TM) and PLECS(TM) (Power Systems)

Duco W. J. Pulle, Pete Darnell, Andre Veltman

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- Provides an overall understanding of all aspects of AC electrical drives, from the motor and converter to the implemented control algorithm, with minimum mathematics needed
- Demonstrates how to implement and debug electrical drive systems using a set of dedicated hardware platforms, motor setup and software tools in VisSim™ and PLECS™
- No expert programming skills required, allowing the reader to concentrate on drive development
- Enables the reader to undertake real-time control of a safe (low voltage) and low cost experimental drive

This book puts the fundamental and advanced concepts behind electric drives into practice. Avoiding involved mathematics whenever practical, this book shows the reader how to implement a range of modern day electrical drive concepts, without requiring in depth programming skills. It allows the user to build and run a series of AC drive concepts, ranging from very basic drives to sophisticated sensorless drives. Hence the book is the only modern resource available that bridges the gap between simulation and the actual experimental environment. Engineers who need to implement an electrical drive, or transition from sensed to sensorless drives, as well as students who need to understand the practical aspects of working with electrical drives, will greatly benefit from this unique reference.

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