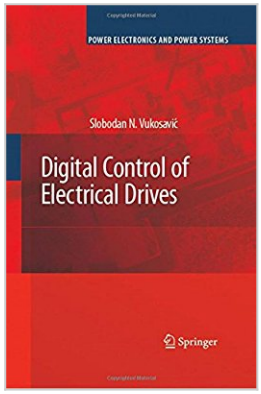

Digital Control of Electrical Drives (Power Electronics and Power Systems)

By Slobodan N. Vukosavic

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Provides broad insights into problems of coding control algorithms on a DSP platform.

- Includes a set of Simulink simulation files (source codes) which permits readers to envisage the effects of control solutions on the overall motion control system.

-bridges the gap between control analysis and industrial practice.

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Editorial Review

Review

From the reviews:

“This book is written for practicing engineers, advanced undergraduates, and graduate students interested in motion control who wish to understand electrical drives and drive control.” (IEEE Control Systems and Magazine, Vol. 30, June, 2010)

From the Back Cover

Digital Control of Electrical Drives offers insight into electric drives and their usage in motion control environment. It provides links among electrical machine and control theory, practical hardware aspects, programming issues, and application-specific problems. The book prepares the reader to understand the key elements of motion control systems, analyze and design discrete-time speed and position controllers, set adjustable feedback parameters, and evaluate closed-loop performances. Basic engineering principles are used to derive the controller structure in an intuitive manner, so that designs are easy to comprehend, modify, and extend.

Digital Control of Electrical Drives helps the reader acquire practical skills in designing discrete-time speed and position controllers. Each chapter is followed by a set of Matlab® and Simulink® tools which help readers master the phases of design, tuning, simulation, and evaluation of discrete time controllers, and foresee the effects of control solution on the overall motion control system. Readers will also understand the present performance limits of digital motion controllers.

Users Review

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Ricardo Hamilton:

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