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Power Converters with Digital Filter Feedback Control

The following realizations of digital control circuits are considered: digital signal processors, microprocessors, transistors. Included are some Matlab examples for illustration of the considered problems.

The book provides detailed examples (over 400) with applications. A thorough introduction to the basics of observers is included. It demonstrates how observers work and how they can improve your control system. It also shows how observers operate when conditions are not ideal and teaches the reader how to quickly obtain observers as a building block. Software tools are available online at the companion website. This book presents a systematic, comprehensive treatment of control and observer design and analysis. It's aimed at all engineering disciplines and its theories are applied to a wide range of practical problems. The book is well-written and clearly organized. It's an excellent resource for anyone interested in learning about observers.

Introduction to Digital Control Systems

This text is aimed at senior-level engineering students and can also be used by graduate students and practicing engineers whose experience has been limited to analog design. It is intended for students who have not had prior exposure to control system design. The book starts with the basic fundamentals, modeling of dynamical systems, discusses analog and digital control theories, and practical implementation using microprocessor-based systems. The book covers topics such as control system design, analysis, and implementation. It includes practical examples and exercises. The book is well-organized and easy to follow. It provides a good balance between theory and practice. It's a valuable resource for anyone interested in learning about control systems.