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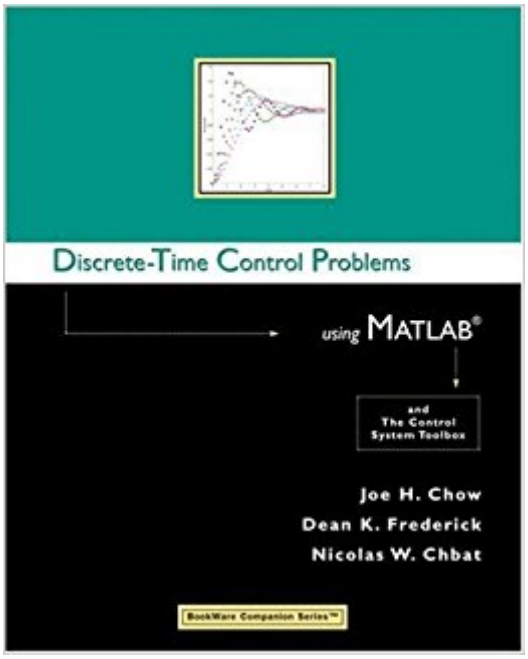

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Synopsis

Using the power of MATLAB and its Control System Toolbox, this book is the ideal supplement for a digital control systems course. Students are able to use a digital computer to rapidly work a wide range of numerical problems and gain deeper insight in control design. The book is built around illustrative examples that demonstrate the steps involved in the analysis and design process. The examples are followed by a variety of problems that span the spectrum from follow-up what-if problems, to simple textbook-type reinforcement problems, to open-ended exploratory problems, and to realistic comprehensive problems. This book is part of the Bookware Companion Series.

Book Information

Series: Bookware Companion Series (Pacific Grove, Calif.).

Paperback: 269 pages

Publisher: CL Engineering; 1 edition (October 7, 2002)

Language: English

ISBN-10: 0534384773

ISBN-13: 978-0534384777

Product Dimensions: 8.9 x 6.6 x 0.4 inches

Shipping Weight: 1 pounds

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Customer Reviews

"It does not have the ’dryness’ of a traditional textbook at all. It is full of excitement when going through some of the problems in the book. The selection of the examples in the book is excellent.""An outstanding feature of the book is the integration of real-world applications throughout the exploration and comprehensive problem sets, e.g. ball and beam system, inverted pendulum system, etc. By connecting the MATLAB work with applications that the students can easily visualize, the book’s homework exercises are extremely useful learning aids. The students will definitely feel that they have learned something worthwhile after working through these homework problems."

Joe H. Chow is a Professor at Rensselaer Polytechnic Institute and a Registered Professional Engineer, State of New York, since 1983. In 1979, he won the Donald P. Eckman award from the American Automatic Control Council for outstanding contributions to control engineering by a young engineer. He has served as the Associate Editor for Automatica and IEEE Transactions on Automatic Control. Dr. Chow has also participated on the NSF Initiation Grant Review Committee, NSF Presidential Young Investigator Grant Review Committee, and the NSF Small Business Innovative Research Grant Review Committee.Nicolas W. Chbat received his Ph.D., focusing on a soft computing application to learning control, from Columbia University, New York City, in 1996. Since then, he has been with General Electric's Corporate RandD Center, working on diagnostics, modeling, and control, using knowledge- and rule-based as well as classical methods for GE products.

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