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Modern Control Systems (10th Edition)

MODERN CONTROL SYSTEMS

TENTH EDITION

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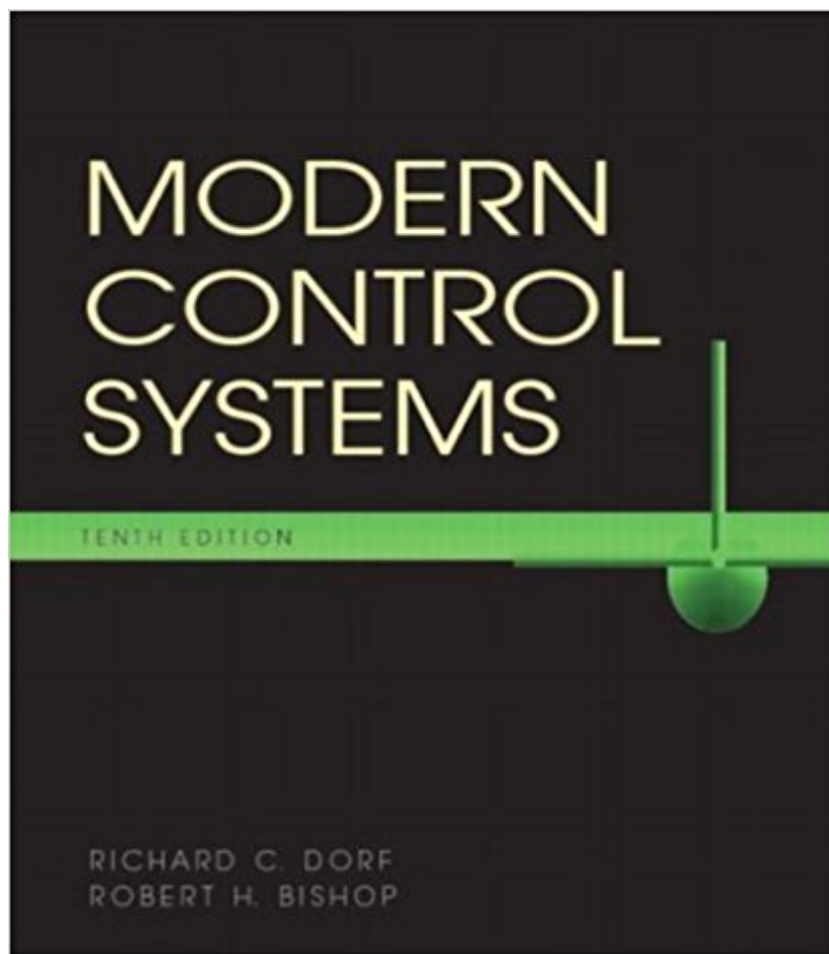
Synopsis

Written to be equally useful for all engineering disciplines, this book is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. The book covers several important topics including robust control systems and system sensitivity, state variable models, controllability and observability, computer control systems, internal model control, robust PID controllers, and computer-aided design and analysis. For all types of engineers who are interested in a solid introduction to control systems.

Book Information

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Customer Reviews

Good reference book for someone with a good engineering background . Lots of problems chances are you find a similar situation in one of them so you can model your actual problem to more or less fit. Hence a nice to have for engineering practice. Not a good text for a first go around at the subject. Explanations on the theory are perfunctory and the reader has to do considerable mathematical labor on its own to follow the examples that are solved and grasp the concepts. This of course means a slow and laborius learning curve particularly for an undergraduate student. The danger being frustration a feeling of helpness and consequently a tendency to reject the subject altogether. I studied with the second edition of this book back in1977 . Then I had it only as a reference book

(400 pages) . This edition has no improvement on the approach of the subject, just more problems and additional subject matter like Z transforms and Difference equations Mathlab etc. It is a pity that after all these years and all these new editions a more effective text from the learning point of view was not developed. How many stars? Two, probably three .

Far too verbose to be useful, far too little practical "how-to" sections to help you figure out and further understand the homework and material. There is so much unnecessary writing that it detracts from what a textbook is supposed to do; help you learn and understand the subject matter. There are plenty of examples but they are all bordering on useless. I'm sure the fact that my controls professor is just as dry and dense as the book doesn't help, but I'd wager that there are far better books on the subject matter.

I mean presonally I think it's a horrid book but it is the same as the US edition that was needed for my control systems class. I actually prefer the Wikibook to be honest. It's easier to understand.What drives me crazy about this book is that on a given page, nothing at the top or bottom tells you what chapter you are looking at. My solution was sticky notes, as well as higlighting the edge of each page that begins a chapter. Then with the book closed I wrote the number of each chapter between the highlighted pages on the fore edge and top edge. Then at least I know I'm in the right chapter.

The text was extremely difficult to follow. Maybe it's because controls isn't physically intuitive, at least for me, compared to subjects like heat transfer or fluids. It was harder for me to understand compared to most other subjects, but the book just seemed unnecessarily dense.

Every time I one this book the pages fall out of the binding. For the cost of the book, I'd expect that it wouldn't fall apart the fact eat time I open.

This book has a lot of information in it. It also has a lot of applications of the topics which is very nice. However, the examples in the book are far and few which makes it difficult to understand exactly what's going on in the application examples. The concept of control systems is very complicated and dense...

DO NOT buy this book, the page and problem numbers don't match the "authentic" version of the 12th edition. The red tag on the corner says the edition isn't authorized for use outside of the Indian

subcontinent, U.S. Students should not be sold this book.

One of the worst textbooks I have ever had to use. The index is barely functional, the practice problems are not particularly enlightening (and really poorly composed). The explanation is sloppy and frequently fails to define symbols etc. Absolutely worthless.

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