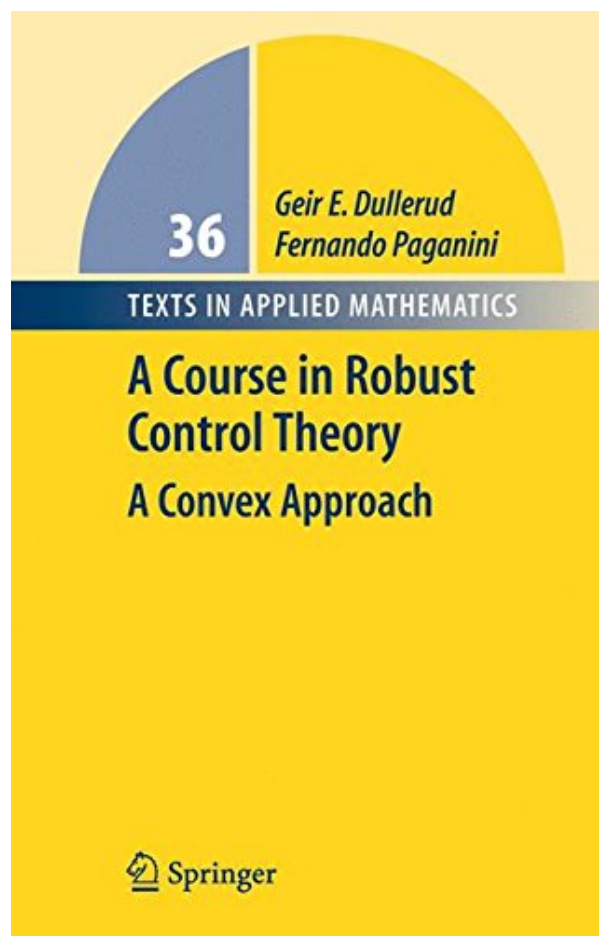
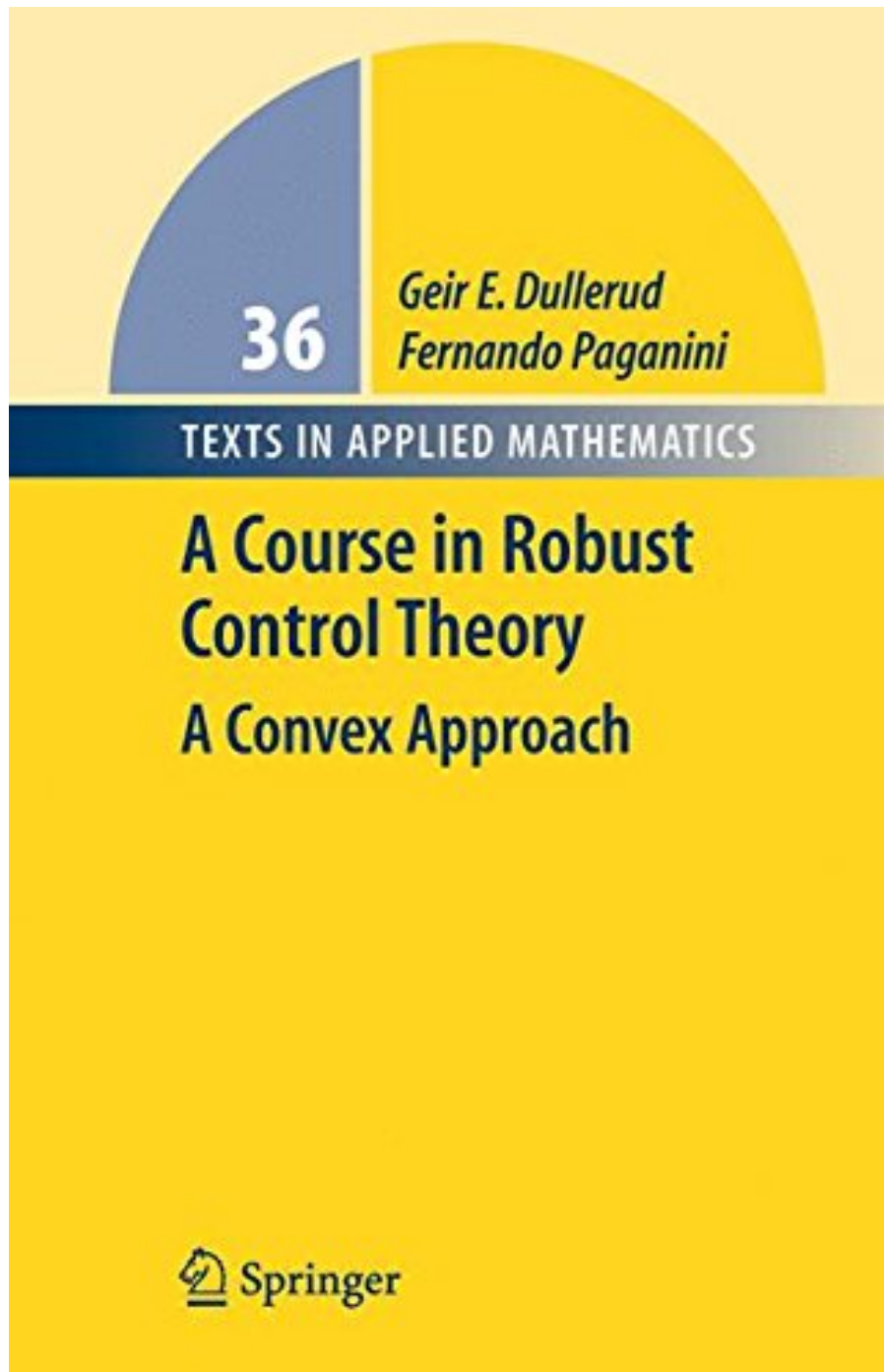


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Review

From the reviews

"Because progress in LMI robust control theory has been explosive, only books published in the past 3 or 4 years can hope to adequately document the phenomenon. The textbook of Dullerud and Paganini rises admirably to the challenge, starting from the basics of linear algebra and system theory and leading the reader through the key 1990s breakthroughs in LMI robust control theory. To keep things simple, the authors relegate the issue of robustness against nonlinear uncertainties to the citations, focusing attention squarely on the linear case. (...)

The book would make an excellent text for a two-semester or two-quarter course for first year graduate students beginning with no prior knowledge of state-space methods. Alternatively, for control students who already have a state-space background."

IEEE Transactions on Automatics Control, Vol. 46, No. 9, September 2001

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During the 90s robust control theory has seen major advances and achieved a new maturity, centered around the notion of convexity. The goal of this book is to give a graduate-level course on this theory that emphasizes these new developments, but at the same time conveys the main principles and ubiquitous tools at the heart of the subject. Its pedagogical objectives are to introduce a coherent and unified framework for studying the theory, to provide students with the control-theoretic background required to read and contribute to the research literature, and to present the main ideas and demonstrations of the major results. The book will be of value to mathematical researchers and computer scientists, graduate students planning to do research in the area, and engineering practitioners requiring advanced control techniques.

- Sales Rank: #1503769 in Books
- Published on: 2005-02-02
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.00" w x 6.14" l, 1.68 pounds
- Binding: Hardcover
- 419 pages

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Most helpful customer reviews

4 of 4 people found the following review helpful.

Nearly incomprehensible to the uninitiated

By Adalard Stevenson

I suspect most folks buying this book are going to be fellow students like me who are required to have this book for a robust control course. I just finished a semester with this piece, having read the first eight chapters line-by-line, and I'm happy to have gotten rid of it.

The information is in there, but don't expect to be able to understand it. Each chapter is a series of lemmas and theorems with corresponding proofs. It is possible to read entire chapters 2-3 times over and still not know what any of it was actually for. The first three chapters are very much that way, with heavy discussion about RH_2 space, RH_2 -perp, LH_2 , Hardy spaces, Hilbert spaces, Banach algebras, ... all expressed with suitably abstract elegance but very little for the student to grab onto. If you already know the material by heart, you'll probably find it a nice review.

This is NOT an applications-oriented book. In fact, there are hardly any examples in the entire text, and the author seems almost proud of this. Thus, if you are expecting a set of tools you might be able to use as a practicing engineer someday, or maybe a numerical example or two in order to solidify your understanding of the theory, you're out of luck. I was downright befuddled by the author's explanation of coprime factorization and found myself still not having any idea what it was used for when I finished the chapter. Even the block diagrams are oriented in funny ways with the signals going from right to left--needlessly annoying and confusing.

"Multivariable Feedback Control: Analysis and Design" by Skogestad and Postlethwaite is a much better book for robust, with more examples and a much less stilted writing style. Where Dellerud and Paganini would gloss over a point using the words "obviously" or "clearly," Skogestad and Postlethwaite try to explain what's important in engineering applications and why.

Finally, my book had really mediocre print quality to the point where horizontal (thin) elements of letters such as lowercase m were completely missing on about half the pages, so while half my brain was trying to comprehend the material, the other half was coping with crummy printing. Some of my friends' copies had better quality. Mine had a yellow cover; a friend's copy with a more orange cover had very good quality. Perhaps they run these in small batches.

Get this book if you must, but don't plan to rely on it as your sole source of understanding.

7 of 8 people found the following review helpful.

A solid basis for modern control theory.

By Matthew M. Peet

Writing a decent textbook on modern control theory is difficult. I have never encountered one which is ideal. This text, however, is perhaps the best attempt so far. The book is almost entirely self-contained, yet is able to develop a rigorous mathematical basis for all of modern control theory, from state-space realizations to optimal control to robust control. The first four chapters are especially well written. The example problems at the end of each chapter are particularly good, in that each is unique and insightful. I use this book as a basis for a graduate class in modern control theory.

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