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Nonlinear Systems: Analysis, Stability, And Control (Interdisciplinary Applied Mathematics)





Synopsis

There has been much excitement over the emergence of new mathematical techniques for the analysis and control of nonlinear systems. In addition, great technological advances have bolstered the impact of analytic advances and produced many new problems and applications which are nonlinear in an essential way. This book lays out in a concise mathematical framework the tools and methods of analysis which underlie this diversity of applications.

Book Information

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Customer Reviews

As a Ph.D student I found this book very helpful and I would like to recommend this book everyone involved in nonlinear systems. I also have Vidyasagar's (i wish there were more example problems) and Khalil's nonlinear systems(mainly devoted to Lyapunov analysis) books which are also good but I found this book much explanatory than others.

This is a good book devoted to nonlinear systems.Compared to Vidyasagar's book, this book has more mathematical rigour, therefore, to follow it you should have a good Calculus/Linear Algebra /Analysis background (I recommend to have good books of these subjects while reading Sastry).Some topics are more intuitively than explicitly covered. The same thing occurs in the exercises at the end of the chapters. Because of this I think that you should not follow only this book in a first course on nonlinear systems. I recomend Khalil's and Isidori's book as parallel readings.

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