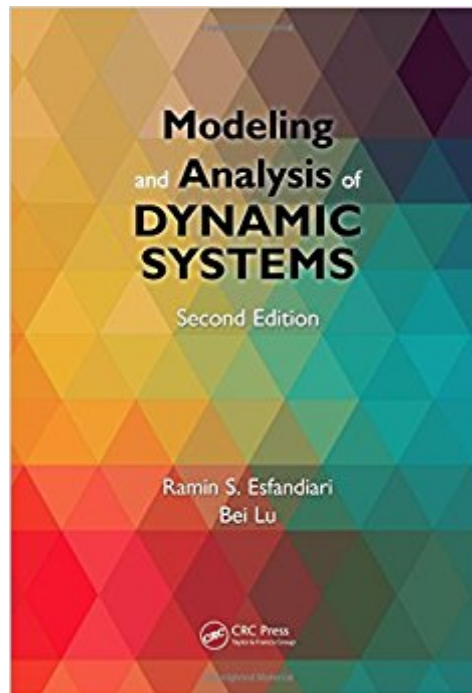




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# Modeling And Analysis Of Dynamic Systems, Second Edition



## Synopsis

Modeling and Analysis of Dynamic Systems, Second Edition introduces MATLAB® , Simulink®, and Simscape® and then uses them throughout the text to perform symbolic, graphical, numerical, and simulation tasks. Written for junior or senior level courses, the textbook meticulously covers techniques for modeling dynamic systems, methods of response analysis, and provides an introduction to vibration and control systems. These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems. See What's New in the Second Edition: Coverage of modeling and analysis of dynamic systems ranging from mechanical to thermal using Simscape Utilization of Simulink for linearization as well as simulation of nonlinear dynamic systems Integration of Simscape into Simulink for control system analysis and design Each topic covered includes at least one example, giving students better comprehension of the subject matter. More complex topics are accompanied by multiple, painstakingly worked-out examples. Each section of each chapter is followed by several exercises so that students can immediately apply the ideas just learned. End-of-chapter review exercises help in learning how a combination of different ideas can be used to analyze a problem. This second edition of a bestselling textbook fully integrates the MATLAB Simscape Toolbox and covers the usage of Simulink for new purposes. It gives students better insight into the involvement of actual physical components rather than their mathematical representations.

## Book Information

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undergraduates in engineering."Zentralblatt MATH 1297

Ramin Esfandiari is a professor of mechanical and aerospace engineering at California State University, Long Beach. Bei Lu is an assistant professor of mechanical and aerospace engineering at California State University, Long Beach. --This text refers to an out of print or unavailable edition of this title.

This book is too bad as a textbook. Cannot be simpler anymore in explanation as well as examples, problems, anywhere. Just putting in what it has to have in the book. If you are refreshing knowledge, this may be a good one. But for NEW students, AVOID this book as possible as you can.

I'm a mechatronics/control engineering student and I couldn't recommend this book more. It's a very clear concise to the point book. It's great for learning classical and modern control theory and matlab and simulink. Super useful book!!

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Thanks.

A pretty decent book for anyone taking an introductory dynamic systems class. Some chapters could use some work, especially the examples, but it got me through the course with an A, so I'm happy about that!

It does a good job at explaining most of the concepts. The author is a professor at my school and he is very intelligent. Worth the money.

This is a very usable and clever book. A real help to us.

Love this book. The explanations are good. But it is workout example that help me get the material. My teacher goes lighting fast and sometimes i cannot keep up with taking notes, or have time to ask questions, so i reside into reading and using the examples to help. They always come thru so far.

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