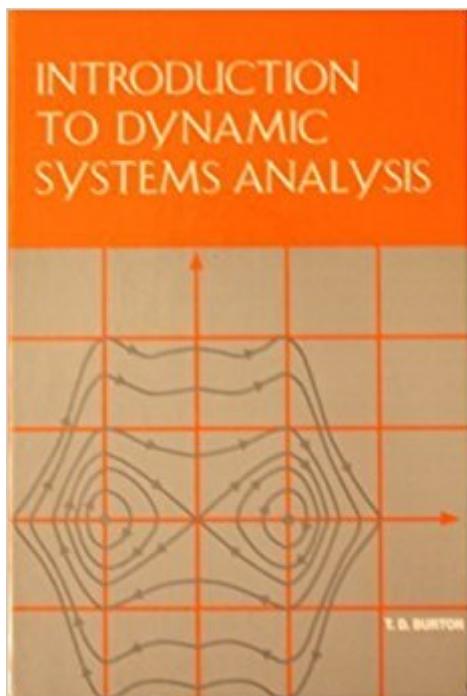


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# Introduction To Dynamic Systems Analysis



## **Synopsis**

This text is for the dynamic systems course offered at the junior or senior level in mechanical, aerospace or engineering science departments. It introduces the fundamentals of dynamic systems theory at a beginning level. The first half of the book presents the basic material needed in the study of the behaviour of dynamic systems. The second half contains applications-oriented material on dynamics, vibrations, controls, numerical methods and nonlinear systems.

## **Book Information**

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## **Customer Reviews**

Best Systems Dynamics book I have seen (and I've seen a lot of them). I'm not sure "Introduction" in the title is necessary, because this book goes into a lot of more advanced stuff that others don't even go near (like modal analysis, complex eigenvectors, and nonlinear dynamics). And it is very well written, often anticipating questions you might ask. But if you're looking for a book that tries to model everything as an electrical circuit analogy, this isn't the book.

I used this book in an undergraduate course on classical controls and dynamic modeling. I found it to be extremely helpful and well written. I have used it many times as a reference both in graduate school and at work, and I have referred it more than once to friends or colleagues with questions on linearization, modeling, and control theory. I am very surprised at the negative comments. I did my graduate work in controls, and, believe me, I have seen many textbooks that were difficult to understand. This is not one of them. I highly recommend this book. Happy reading!

I found this book to be extremely clear as it provided a great reinforcement of dynamics in general. Clearly presented is its treatment of linearization and control theory. I am looking to reacquire it for reference in studying for my qualifying exam and am surprised by negative comments.

I am a 4.0 engineering major and I found this book to be one of the worst I have come across. I spent more time trying to figure out how the author got from point A to point B in his derivations than I did learning the material. It is not clearly written. Find another book!

Very dense reading. Tough to follow. The chapter on Bode Plots was really horrible. The examples didn't help. If I hadn't learned Bode Plots before, it would have been very frustrating. Overall, I do not recommend this book.

I found Burton's book to be a thorough and insightful treatment of the subject of dynamic systems. I guess 4 pointers from U of MD aren't that bright.

This book is a valuable source of information to understand dynamics and analyze motion problems. Furthermore, Professor Burton is such a wonderful person.

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