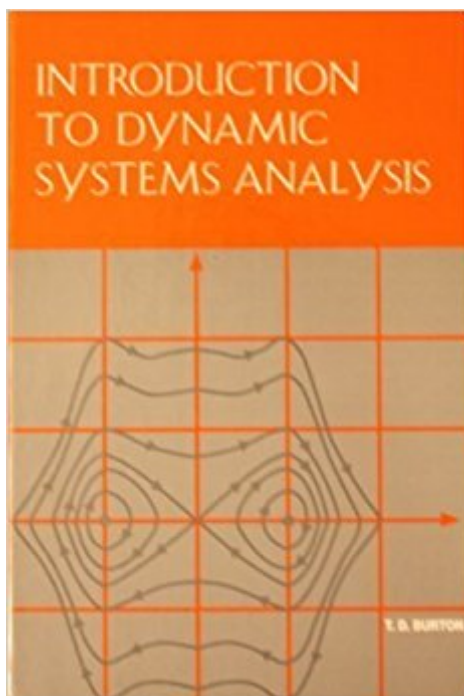


The book was found

# 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

Series: McGraw Hill Series in Mechanical Engineering

Hardcover: 690 pages

Publisher: McGraw-Hill College (January 1, 1994)

Language: English

ISBN-10: 0070092907

ISBN-13: 978-0070092907

Product Dimensions: 1.2 x 6.8 x 9.8 inches

Shipping Weight: 2.5 pounds

Average Customer Review: 4.0 out of 5 stars 7 customer reviews

Best Sellers Rank: #690,796 in Books (See Top 100 in Books) #193 in [Books > Science & Math > Physics > System Theory](#) #599 in [Books > Science & Math > Physics > Dynamics](#) #696 in [Books > Textbooks > Science & Mathematics > Mechanics](#)

## 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.

[Download to continue reading...](#)

Modeling Dynamic Biological Systems (Modeling Dynamic Systems) Dynamic Modeling in the Health Sciences (Modeling Dynamic Systems) Introduction To Dynamic Systems Analysis Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) Modeling and Analysis of Dynamic Systems Modeling and Analysis of Dynamic Systems, Second Edition Decoding The Hidden Market Rhythm - Part 1: Dynamic Cycles: A Dynamic Approach To Identify And Trade Cycles That Influence Financial Markets (WhenToTrade) Decoding The Hidden Market Rhythm - Part 1: Dynamic Cycles: A Dynamic Approach To Identify And Trade Cycles That Influence Financial Markets (WhenToTrade) (Volume 1) Dynamic Programming and Optimal Control, Vol. II, 4th Edition: Approximate Dynamic Programming Dynamic Mechanical Analysis: A Practical Introduction, Second Edition [ Differential Equations, Dynamical Systems, and an Introduction to Chaos [ DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. ( Author ) Mar-26-2012 ] By Hirsch, Morris W. ( Author ) [ 2012 ) [ Paperback ] Fundamentals Of Information Systems Security (Information Systems Security & Assurance) -

Standalone book (Jones & Bartlett Learning Information Systems Security & Assurance) Signals and Systems: Analysis of Signals Through Linear Systems Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) Feedback Control of Dynamic Systems (7th Edition) Dynamic Systems: Modeling, Simulation, and Control Earth's Dynamic Systems (10th Edition) Modelling and Control of Dynamic Systems Using Gaussian Process Models (Advances in Industrial Control) Feedback Control of Dynamic Systems (5th Edition) Digital Control of Dynamic Systems (3rd Edition)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)