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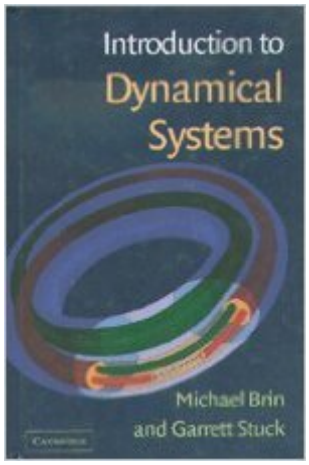
Introduction To Dynamical Systems



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Synopsis

This book provides a broad introduction to the subject of dynamical systems, suitable for a one or two-semester graduate course. In the first chapter, the authors introduce over a dozen examples, and then use these examples throughout the book to motivate and clarify the development of the theory. Topics include topological dynamics, symbolic dynamics, ergodic theory, hyperbolic dynamics, one-dimensional dynamics, complex dynamics, and measure-theoretic entropy. The authors top off the presentation with some beautiful and remarkable applications of dynamical systems to areas such as number theory, data storage, and internet search engines.

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Customer Reviews

So far I have found this book to include many of the classic and meaningful examples of Dynamical Systems, and has appropriate exercise for a graduate level course. So, I'll give it a good rating based soley on its use for researchers and advanced math students. However, it is very terse. Do not pick this up expecting a lot of discussion about the topics. Most of the time it is basically a list of definitions and theorem/proof's with exercises. Because of that it is great for use in a class, but might be a little difficult for independent learning. It could use a few more pictures, too.

The author is a very good mathematician (and a grandfather of Google) so I was expecting a short and lucid introduction to dynamical system. Imagine my sadness when I found the book barely comprehensible. Apparently, the author learned his writing skills in Russian in the 60s, where paper

was scarce, and any sort of explanation was viewed a waste thereof. If you actually want to understand dynamics, Katok/Hasselblatt Introduction to the Modern Theory of Dynamical Systems (Encyclopedia of Mathematics and its Applications) is vastly superior.

This book was mostly our lecture notes for a year long course at University of Maryland. We helped find typos in it and I have read most of this material very carefully.It is exceedingly concise. It is a good introduction if you have access to classes themselves; otherwise, it is a rather quick way for an advanced reader to learn about some major topics in Dynamical systems. If you have time, everything is there and the book is readable. overall, a good book in your collection of dynamical systems but perhaps not the very first book on the subject. I would say it's good for a third year graduate student for self-study.

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