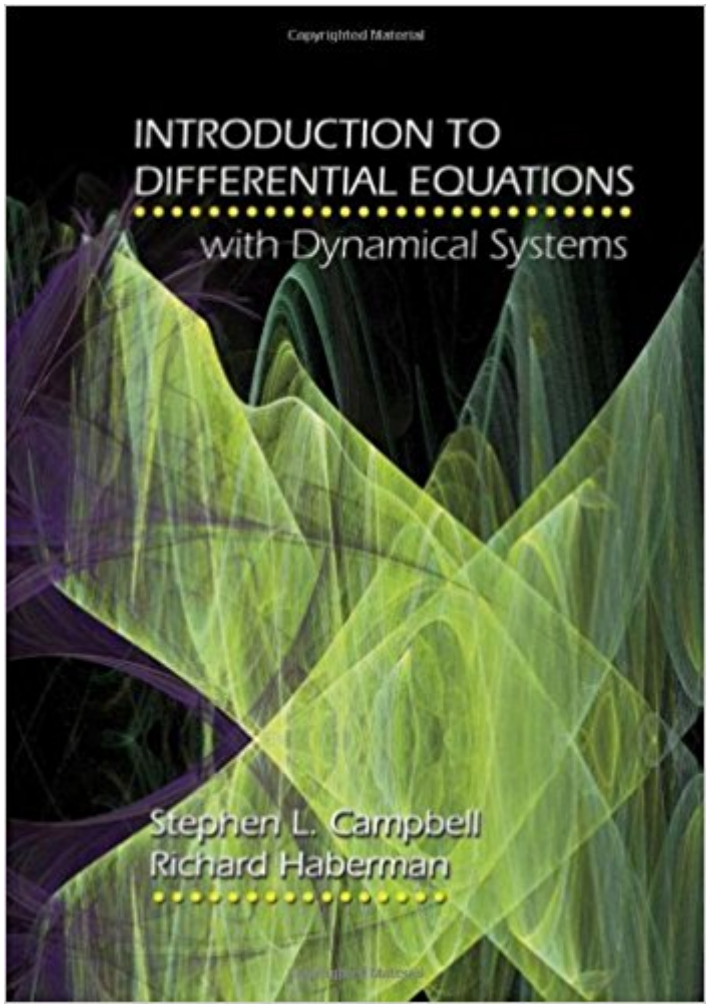
Introduction To Differential Equations With Dynamical Systems



Synopsis

Many textbooks on differential equations are written to be interesting to the teacher rather than the student. Introduction to Differential Equations with Dynamical Systems is directed toward students. This concise and up-to-date textbook addresses the challenges that undergraduate mathematics, engineering, and science students experience during a first course on differential equations. And, while covering all the standard parts of the subject, the book emphasizes linear constant coefficient equations and applications, including the topics essential to engineering students. Stephen Campbell and Richard Haberman--using carefully worded derivations, elementary explanations, and examples, exercises, and figures rather than theorems and proofs--have written a book that makes learning and teaching differential equations easier and more relevant. The book also presents elementary dynamical systems in a unique and flexible way that is suitable for all courses, regardless of length.

Book Information

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Customer Reviews

"These two experienced applied mathematicians have sought to provide an easy-to-read introduction to differential equations for typical students. . . . The writing is clear and well illustrated."--Robert E. O'Mally, Jr., SIAM Review"Introduction to Differential Equations with Dynamical Systems is directed towards students. This concise and up-to-date textbook addresses the challenges that undergraduate mathematics, engineering and science students experience during a first course on differential equations."--L'Enseignement Mathematique

Stephen L. Campbell is professor of mathematics and director of the graduate program in mathematics at North Carolina State University. Richard Haberman is professor of mathematics at Southern Methodist University. Campbell and Haberman are prolific researchers in applied mathematics and the authors of a number of textbooks.

This book is superb. I've gone through over 10 books on ODE and this is by far the most impressive. The only book that comes close is Stroud's. Examples are given and explained with such clarity. It's unprecedented.My only complaint is that it doesn't go over every topic we went over in class when I took ODE. Specifically Fundamental Matrices. The sections on the Laplace Transform (Which includes Step Function and Dirac Delta Function.) are the best I've ever read.I used Boyce and Diprima's ODE when I took Differential Equations so I know how difficult learning ODE can be. This book is well worth the price tag if you're taking ODE.10/10.

One of the best math books I've bought. Very well written and easy to understand. Made the class very easy even taking calc 2 seven years ago.

it's math, what do u expect. Its just amazing stuff

Found this gem at the library because the course textbook (First Course in Differential Equations by J. David Logan) sucked so much.Oh my god. The authors really thought about the students' viewpoint and explained everything clearly and how propositions were derived and why we're doing all these excercises and how they're relevant.Easy to understand, conversational, and minimum level of "assumptions."Wanted to buy a copy because I'm also taking Intro to Electrical Engineering but it's too expensive so it looks like I'm extending my date forever! Love this book!

[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] Introduction to Differential Equations with Dynamical Systems Differential Equations, Dynamical Systems, and an Introduction to Chaos, Third Edition Differential Equations, Dynamical Systems, and an Introduction to Chaos Differential Equations, Dynamical Systems, and an Introduction to Chaos, Second Edition (Pure and Applied Mathematics) Differential Equations and Dynamical Systems (Texts in Applied

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