

An Introduction to Ordinary Differential Equations (Universitext)

By Ravi P. Agarwal, Donal O'Regan

Donwload Read Online

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan

Ordinary differential equations serve as mathematical models for many exciting real world problems. This textbook organizes material around theorems and proofs, comprising of 42 class-tested lectures that effectively convey the subject in easily manageable sections.

Download An Introduction to Ordinary Differential Equations ...pdf

Read Online An Introduction to Ordinary Differential Equatio ...pdf

An Introduction to Ordinary Differential Equations (Universitext)

By Ravi P. Agarwal, Donal O'Regan

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan

Ordinary differential equations serve as mathematical models for many exciting real world problems. This textbook organizes material around theorems and proofs, comprising of 42 class-tested lectures that effectively convey the subject in easily manageable sections.

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan Bibliography

- Sales Rank: #1989306 in Books
- Published on: 2008-07-29
- Released on: 2008-07-29
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .77" w x 6.10" l, 1.10 pounds
- Binding: Paperback
- 322 pages

Download An Introduction to Ordinary Differential Equations ...pdf

Read Online An Introduction to Ordinary Differential Equatio ...pdf

Download and Read Free Online An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan

Editorial Review

Review

From the reviews:

"Presents a thorough treatment of the classical material traditionally covered in an advanced book on ordinary differential equations, including a number of interesting historical notes. … The authors also discuss Lyapunov functions, Green’s functions comparison and separation theorems, maximum principle, Sturm-Liouville problems, Fredholm alternative, and Floquet theory. In addition, the book addresses results by Perron, Kamke, Osgood, Nagumo, Krasnoselski-Krein, and Van Kampen which are not found in some similar works. … Summing Up: Recommended. Upper-division undergraduates, graduate students, researchers, and faculty." (J. D. Fehribach, Choice, Vol. 46 (8), April, 2009)

"The textbook is devoted to a systematic and rigorous introduction to the theory of ordinary differential equations. … the practical part include numerous exercises with answers or hints. Written by two prolific leaders in the field of ordinary differential equations and nonlinear analysis, the textbook provides a very clear, well-organized and lucid introduction to ordinary differential equations, with an implicit orientation towards the most recent research topics and methods in the field and related areas." (Radu Precup, Zentralblatt MATH, Vol. 1158, 2009)

“This text book provides an excellent introduction to the subject accessible to second-year undergraduate or graduate-level students. Its structure in the form of a succession of 42 class-tested lectures makes it not only an inspiring source for self-study but gives also a good framework for the organization of course material. … a highly recommendable book for students in mathematics, sciences, or engineering as well as for teachers on college and university level.” (G. Hörmann, Monatshefte für Mathematik, Vol. 159 (4), March, 2010)

From the Back Cover

This textbook provides a rigorous and lucid introduction to the theory of ordinary differential equations (ODEs), which serve as mathematical models for many exciting real-world problems in science, engineering, and other disciplines.

Key Features of this textbook:

Effectively organizes the subject into easily manageable sections in the form of 42 class-tested lectures

Provides a theoretical treatment by organizing the material around theorems and proofs

Uses detailed examples to drive the presentation

Includes numerous exercise sets that encourage pursuing extensions of the material, each with an "answers or hints" section

Covers an array of advanced topics which allow for flexibility in developing the subject beyond the basics

Provides excellent grounding and inspiration for future research contributions to the field of ODEs and related areas

This book is ideal for a senior undergraduate or a graduate-level course on ordinary differential equations. Prerequisites include a course in calculus.

Series: Universitext

Ravi P. Agarwal received his Ph.D. in mathematics from the Indian Institute of Technology, Madras, India. He is a professor of mathematics at the Florida Institute of Technology. His research interests include numerical analysis, inequalities, fixed point theorems, and differential and difference equations. He is the author/co-author of over 800 journal articles and more than 20 books, and actively contributes to over 40 journals and book series in various capacities.

Donal O'Regan received his Ph.D. in mathematics from Oregon State University, Oregon, U.S.A. He is a professor of mathematics at the National University of Ireland, Galway. He is the author/co-author of 14 books and has published over 650 papers on fixed point theory, operator, integral, differential and difference equations. He serves on the editorial board of many mathematical journals.

Previously, the authors have co-authored/co-edited the following books with Springer: *Infinite Interval Problems for Differential, Difference and Integral Equations; Singular Differential and Integral Equations with Applications; Nonlinear Analysis and Applications: To V. Lakshmikanthan on his 80th Birthday*. In addition, they have collaborated with others on the following titles: *Positive Solutions of Differential, Difference and Integral Equations; Oscillation Theory for Difference and Functional Differential Equations; Oscillation Theory for Second Order Linear, Half-Linear, Superlinear and Sublinear Dynamic Equations.*

Users Review

From reader reviews:

Anthony Doucet:

Do you have favorite book? Should you have, what is your favorite's book? Reserve is very important thing for us to know everything in the world. Each book has different aim or even goal; it means that guide has different type. Some people experience enjoy to spend their time for you to read a book. They may be reading whatever they get because their hobby will be reading a book. How about the person who don't like examining a book? Sometime, particular person feel need book when they found difficult problem or exercise. Well, probably you will require this An Introduction to Ordinary Differential Equations (Universitext).

Tommie Matthews:

What do you regarding book? It is not important along? Or just adding material when you want something to explain what yours problem? How about your extra time? Or are you busy particular person? If you don't have spare time to perform others business, it is make you feel bored faster. And you have time? What did you do? All people has many questions above. The doctor has to answer that question because just their can do in which. It said that about publication. Book is familiar in each person. Yes, it is correct. Because start from on guardería until university need this specific An Introduction to Ordinary Differential Equations (Universitext) to read.

Karolyn Kaufman:

Your reading sixth sense will not betray anyone, why because this An Introduction to Ordinary Differential Equations (Universitext) guide written by well-known writer we are excited for well how to make book which can be understand by anyone who else read the book. Written in good manner for you, still dripping wet every ideas and publishing skill only for eliminate your personal hunger then you still hesitation An Introduction to Ordinary Differential Equations (Universitext) as good book but not only by the cover but also through the content. This is one e-book that can break don't judge book by its protect, so do you still needing yet another sixth sense to pick this!? Oh come on your examining sixth sense already said so why you have to listening to yet another sixth sense.

Helen Chandler:

That publication can make you to feel relax. That book An Introduction to Ordinary Differential Equations (Universitext) was colorful and of course has pictures on the website. As we know that book An Introduction to Ordinary Differential Equations (Universitext) has many kinds or type. Start from kids until youngsters. For example Naruto or Investigator Conan you can read and believe that you are the character on there. So , not at all of book usually are make you bored, any it makes you feel happy, fun and chill out. Try to choose the best book for you and try to like reading that will.

Download and Read Online An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan #UHT6ACEO3K8

Read An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan for online ebook

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan books to read online.

Online An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan ebook PDF download

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan Doc

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan Mobipocket

An Introduction to Ordinary Differential Equations (Universitext) By Ravi P. Agarwal, Donal O'Regan EPub