



Differential Equations: Methods and Applications (Compact Textbooks in Mathematics)

By Belkacem Said-Houari

Download now

Read Online 

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari

This book presents a variety of techniques for solving ordinary differential equations analytically and features a wealth of examples. Focusing on the modeling of real-world phenomena, it begins with a basic introduction to differential equations, followed by linear and nonlinear first order equations and a detailed treatment of the second order linear equations. After presenting solution methods for the Laplace transform and power series, it lastly presents systems of equations and offers an introduction to the stability theory.

To help readers practice the theory covered, two types of exercises are provided: those that illustrate the general theory, and others designed to expand on the text material. Detailed solutions to all the exercises are included.

The book is excellently suited for use as a textbook for an undergraduate class (of all disciplines) in ordinary differential equations.

 [Download Differential Equations: Methods and Applications \(...pdf](#)

 [Read Online Differential Equations: Methods and Applications ...pdf](#)

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics)

By Belkacem Said-Houari

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari

This book presents a variety of techniques for solving ordinary differential equations analytically and features a wealth of examples. Focusing on the modeling of real-world phenomena, it begins with a basic introduction to differential equations, followed by linear and nonlinear first order equations and a detailed treatment of the second order linear equations. After presenting solution methods for the Laplace transform and power series, it lastly presents systems of equations and offers an introduction to the stability theory. To help readers practice the theory covered, two types of exercises are provided: those that illustrate the general theory, and others designed to expand on the text material. Detailed solutions to all the exercises are included.

The book is excellently suited for use as a textbook for an undergraduate class (of all disciplines) in ordinary differential equations.

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari **Bibliography**

- Sales Rank: #4390247 in Books
- Published on: 2016-01-19
- Released on: 2016-01-19
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .51" w x 6.10" l, .0 pounds
- Binding: Paperback
- 212 pages



[Download Differential Equations: Methods and Applications \(...pdf](#)



[Read Online Differential Equations: Methods and Applications ...pdf](#)

Download and Read Free Online Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari

Editorial Review

Review

The book presents a concise introduction to the theory of ordinary differential equations that arise in the real world, and the methods used to solve them. Each section or chapter of the book has been followed with examples and exercises with detailed solutions. ... The book is outstanding and will be excellently suited for students who have completed two semesters of differential and integral calculus and need a concise presentation of an introduction to the theory of ordinary differential equations.” (Olusola Akinyele, zbMATH 1338.34003, 2016)

From the Back Cover

This book presents a variety of techniques for solving ordinary differential equations analytically and features a wealth of examples. Focusing on the modeling of real-world phenomena, it begins with a basic introduction to differential equations, followed by linear and nonlinear first order equations and a detailed treatment of the second order linear equations. After presenting solution methods for the Laplace transform and power series, it lastly presents systems of equations and offers an introduction to the stability theory. To help readers practice the theory covered, two types of exercises are provided: those that illustrate the general theory, and others designed to expand on the text material. Detailed solutions to all the exercises are included.

The book is excellently suited for use as a textbook for an undergraduate class (of all disciplines) in ordinary differential equations.

About the Author

Dr. Belkacem Said-Houari received his Ph.D degree in partial differential equations (hyperbolic problems and nonclassical thermoelasticity) from Annaba University (Algeria) in 2005.

His research interests focus on analysis of hyperbolic PDE (e.g. in thermoelasticity, Timoshenko systems, nonlinear wave equations), integro-differential equations, parabolic and hyperbolic-parabolic PDE.

He is the author or co-author of 45 research papers published in refereed international journals.

He is the winner of the Abdul Hameed Shoman Award for Young Arab Researchers, Mathematics (2012).

Users Review

From reader reviews:

Rose Slagle:

Have you spare time for a day? What do you do when you have far more or little spare time? That's why, you can choose the suitable activity for spend your time. Any person spent their spare time to take a stroll, shopping, or went to the particular Mall. How about open as well as read a book called Differential Equations: Methods and Applications (Compact Textbooks in Mathematics)? Maybe it is to become best

activity for you. You realize beside you can spend your time together with your favorite's book, you can better than before. Do you agree with its opinion or you have various other opinion?

Ashley Davis:

Do you one among people who can't read pleasant if the sentence chained in the straightway, hold on guys this aren't like that. This Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) book is readable by you who hate those perfect word style. You will find the info here are arrange for enjoyable reading experience without leaving possibly decrease the knowledge that want to give to you. The writer regarding Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) content conveys objective easily to understand by lots of people. The printed and e-book are not different in the articles but it just different by means of it. So , do you even now thinking Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) is not loveable to be your top record reading book?

Allison Walters:

Nowadays reading books become more than want or need but also become a life style. This reading habit give you lot of advantages. The huge benefits you got of course the knowledge the particular information inside the book which improve your knowledge and information. The information you get based on what kind of publication you read, if you want get more knowledge just go with knowledge books but if you want sense happy read one along with theme for entertaining such as comic or novel. The actual Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) is kind of publication which is giving the reader erratic experience.

Lawrence Gibbs:

Can you one of the book lovers? If yes, do you ever feeling doubt when you find yourself in the book store? Try and pick one book that you never know the inside because don't assess book by its include may doesn't work here is difficult job because you are frightened that the inside maybe not seeing that fantastic as in the outside appear likes. Maybe you answer can be Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) why because the excellent cover that make you consider concerning the content will not disappoint anyone. The inside or content will be fantastic as the outside or perhaps cover. Your reading 6th sense will directly guide you to pick up this book.

Download and Read Online Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari #QGR36Z8EAYK

Read Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari for online ebook

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari 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 Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari books to read online.

Online Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari ebook PDF download

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari Doc

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari MobiPocket

Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari EPub

QGR36Z8EAYK: Differential Equations: Methods and Applications (Compact Textbooks in Mathematics) By Belkacem Said-Houari