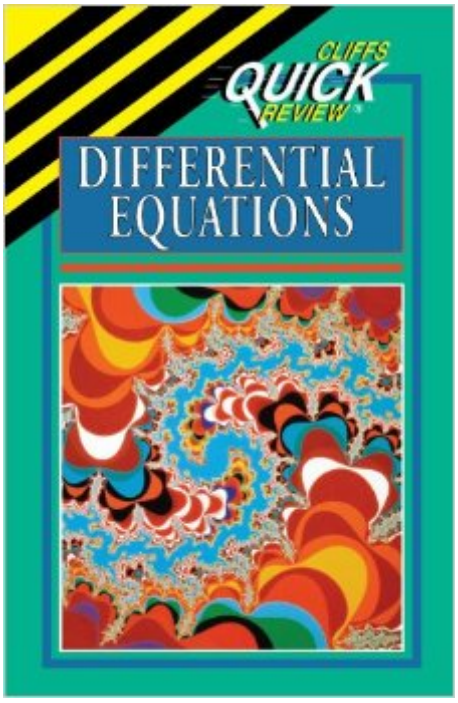
Differential Equations (Cliffs Quick Review)



Synopsis

CliffsQuickReview course guides cover the essentials of your toughest subjects. Get a firm grip on core concepts and key material, and test your newfound knowledge with review questions.Whether you need a course supplement, help preparing for an exam, or a concise reference for the subject, CliffsQuickReview Differential Equations can help. This guide covers first-order and second-order equations, power series, and more. In no time, you'll be tackling topics such asLinear and homogeneous equationsIntegrating factorsThe Laplace transform operatorSimple harmonic motionOrthogonal trajectoriesCliffsQuickReview Differential Equations acts as a supplement to your other learning materials. Use this reference in any way that fits your personal style for study and review â " you decide what works best with your needs. You can flip through the book until you find what you're looking for â " it's organized to gradually build on key concepts. You can also get a feel for the scope of the book by checking out theContents pages that give you a chapter-by-chapter list of topics.Tabs at the top of each page that tell you what topic is being covered.Heading and subheading structure that breaks sections into clearly identifiable bites of information.Keywords in boldface type throughout the text.Wealth of formulas and figures designed to provide visual references.With titles available for all the most popular high school and college courses, CliffsQuickReview guides are comprehensive resources that can help you get the best possible grades.

Book Information

Series: Cliffs Quick Review (Paperback)

Paperback: 192 pages

Publisher: Cliffs Notes; 1 edition (June 9, 1995)

Language: English

ISBN-10: 0822053209

ISBN-13: 978-0822053200

Product Dimensions: 5.7 x 0.5 x 8.2 inches

Shipping Weight: 11 ounces (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 starsÂ Â See all reviewsÂ (10 customer reviews)

Best Sellers Rank: #1,013,260 in Books (See Top 100 in Books) #504 inÂ Books > Science & Math > Mathematics > Applied > Differential Equations #811 inÂ Books > Education & Teaching > Higher & Continuing Education > Test Preparation > College Entrance #1273 inÂ Books > Textbooks > Science & Mathematics > Mathematics > Calculus

Customer Reviews

This book provided me with almost what I wanted from such a title, that is a good bare 'how-to' review of ODE's (no PDE's here despite the rather general title). You'll find no 'theorem/proof/lemma' approach but rather 'heres an example-do 'em like this'-which does have its place for those seeking a 'quick fix' and can actually make concrete some ideas. I felt there were omissions that could have been included instead of the brief 'review of calculus' and 'a few applications'. These would include at least some attempt to deal with solving DE's by power series at ordinary singular points, some coverage of simple numerical (say Euler) solutions, and a mention of 'slope fields' in the 'introduction to DE's' section. For myself I also like the non-ornate presentation..it is free of the 'soap box/multi-windowed/cross referenced' pedagogical style that tends to distract some (me for one). A commendable feature is that this book could actually be 'read' (in the old fashioned contiguous way), and learned from by most high school/freshman level students.

Diff Eq instructors are usually the brightest mathematical minds in the city. However that doesn't mean that they can teach it. I re-learned the first month and a half of my Diff Eq course after being utterly bewildered every day of class. This book offers an almost cookbook formula for solving beginning differential equations. It also explains differential equations in a way that a struggling student might understand. It sure saved me. If you're a math major skip it, it will only leave you wanting more and you shouldn't be having trouble with Diff Eq anyway. However if you find mathematics a necessary evil and are completely lost 90% of the time with moments of clarity, this guide is for you.

professor Leduc is the best professor in teaching DE. I took his course and this is just part of how well versed he is with this subject. You should try to convince him to write a complete book. When I took his course , it made the class seem like it was no big deal. He is funny and very smart.Try SDSU. Sry. He is great!!!

This is a very nice affordable quick introduction to differential equations. If you are comfortable with series, integrations by parts, and integration by partial fractions you will have no problem with the book. I think the author does a good job in writing out the steps which are frequently left out. As an example rather than just saying integrating by parts twice for the derivations of the Laplace transform of sin ax, he actually writes the two integrations out. I agree it would be nice to have a

chapter on Euler's formula and I would add to that Fourier series and transforms. You can use the combination of the LaPlace transform of e^ax and Euler's formula to derive the Laplace transforms for sin ax and cos ax. The derivation is easier and quite useful. It serves as a very nice introduction to wave mechanics and the future study of quantum mechanics. If you are learning differential equations on your own this derivation can be found in Schaum's 2500 Solved Problems in Differntial Equations Chapter 12 Problem #8. The book is out of print but if you are looking for lots of practice problems with solutions it is worth finding a copy. In summary Differntial Equations by Leduc is a nice short introduction to differential equations. I enjoyed reading it and if you remember first year calculus you should have no problem enjoying it as well. The same author also has written a introductory text for Linear Algebra. I will review that separately.

I would highly recommend this book for anyone taking differential equations. It concisely describes how to solve almost every type of equation. While it won't replace going to class and doing homework, this little book certainly is a big help.

Card) A First Course in Differential Equations: The Classic Fifth Edition (Classic Edition) Partial Differential Equations: An Introduction Elementary Differential Equations with Boundary Value Problems (6th Edition)