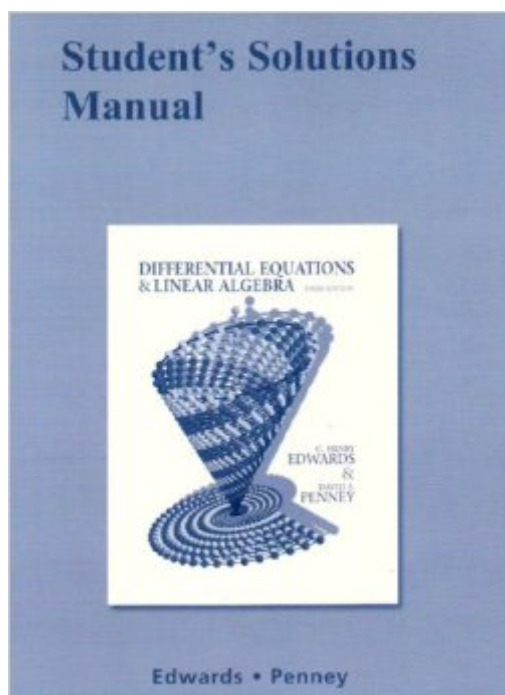


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# Student Solutions Manual For Differential Equations And Linear Algebra



## Synopsis

Known for its real-world applications that grab readers' interest, this proven reference offers a full treatment of linear algebra. Discusses mathematical modeling of real-world phenomena, with a fresh new computational and qualitative flavor evident throughout in figures, examples, problems, and applications. Integrates scientific computing environments like Maple, Mathematica, and MATLAB. Extensively rewrites key sections with a fresh qualitative approach. Adds approximately 300 new computer-generated figures. Adds approximately 300 new or revised problems, many with a qualitative emphasis. A comprehensive reference for anyone who needs to improve their linear algebra skills. --This text refers to an alternate Paperback edition.

## Book Information

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## Customer Reviews

First before I give my review of this book, I see it as necessary to give a description of myself. I am both a teacher and a student, and I have about six years teaching experience in all levels of mathematics up to calculus II. I can honestly say that this is the worst textbook that I have ever used. I would say that with reservations if it were even remotely untrue. This book, while making a daring attempt to cover many complicated areas of mathematics, fails to provide a good resource for either in the class or out of classroom learning. The areas specifically are: 1. Problem Examples Differential equations are at times extremely difficult. Frequent skipping of steps and examples that are far too simple considering the practice problems given achieves little in the way of teaching. 2. An excessive focus on paragraph after paragraph of writing, while little attempts to make said writing

flow along with the learning of technique and example problems. These are the technical aspects that are poorly executed. Beyond that, perhaps the worst aspect is the presumptuous tone of the author that a concept may appear 'obviously' or 'clearly' or 'simply'. I do not recommend this book unless you already have quite a formal understanding of differential equations. If you do however, the reference to numerical methods and symbolic methods in Mathematica, Matlab, and for the TI-89 are superb. But I stress that is only if you already have an understanding of the topic. I acknowledge that it can be extremely difficult to write a good textbook. This book fails to provide a good source for new learners.

I needed the 3rd edition for my class but wanted to see if I could get away with this edition. It is exactly the same content as the 3rd edition, even the problems are in the same order. They only changed layout and font type. Great alternative to buying the new edition.

This book was required for my differential equations and linear algebra class. The only problems are that the chapters don't explain anything clearly at all and the solutions manuals don't show solutions at all. The solutions manual only shows intermediate answers and skips all the nitty-gritty. Anyway it's not very useful. It turns out that the book is only worthwhile for the problems themselves.

I don't know why the reviews on this are so harsh...I'm a Junior engineering student, and I pretty much hate every textbook I've ever had to purchase for my major. I was actually pleasantly surprised by this Diff. Equations book. Granted it still is a math textbook, so following it is sometimes hard, but the examples given in the book are very helpful, and I was able to do almost all the required homework by working through stuff in the book. My lecturer wasn't the greatest so I was able to get an A in the class with the majority of learning coming from the book. I was annoyed that some of the homework problems seemed to come out of the blue with no similar example in the book, but ah well. I did have the solutions manual to help me out a bit with those (only the odd problems are solved in the solutions) and if it was an even problem, an odd problem before or after would be of similar make so I could find the general way to solve the problem anyway. Yup, not too bad, not perfect, but definitely not a two star book either.

Huge disappointment. I hope to never take a class that uses this author's materials ever again. Use Chegg.com instead of this manual. Many of the "solutions" that are illustrated throughout this manual are no better than the final answers you normally find in the back of the book. If I buy a

solutions manual I want a step-by-step solution to the problem. Not some thrown together half-assed pile that cites examples at the beginning of the chapter and leaves it at that.

When I first learnt differential equations and linear algebra, it was with texts written in the 60s and 70s. So I turned to this book with interest; wondering what has changed. Well, at the level of the book, most of the material has been known for decades. But one immediate difference is the profusion of diagrams and the increased use of colour. Due in part to improvements in printing technology. It means that current students also have more visual cues to learn from. When one is studying differential equations, this can be quite useful. Also, there is indeed new material here. Numerical methods are prominently discussed in many sections. Due to vastly more common availability of computers. So students are not restricted to handling only those problems that can be solved by hand, to give simple analytic results. The scope of learning has expanded. Now granted, most of the numerical methods in the book were already known in the 70s. But they were usually presented in texts devoted to numerical analysis, for people specialising in that field. Nowadays, it can be used in other branches of maths, like that covered by this book. Along these lines, the authors exhibit an ecumenical attitude towards what computer languages a reader might be familiar with. Example programs are given in Basic and for the TI-89. For symbolic algebra, code is furnished for Maple and Mathematica. They recognise that readers might have different preferences and they try to outreach to as many as practical.

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