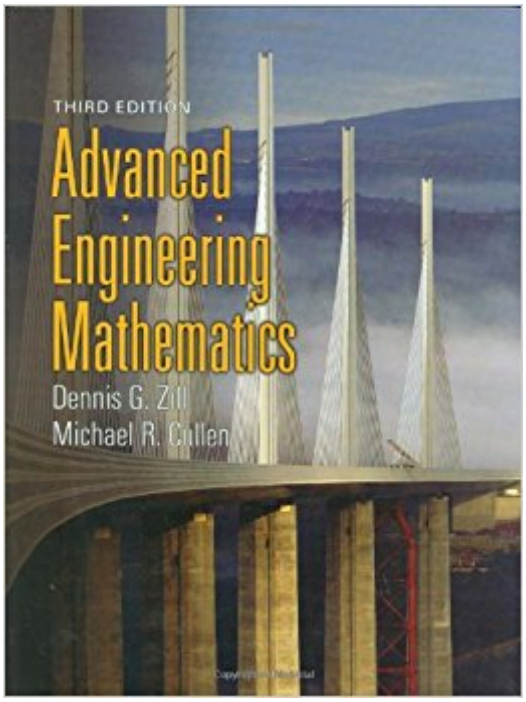
Advanced Engineering Mathematics, 3rd Edition



Synopsis

Thoroughly updated, Zillâ ™s Advanced Engineering Mathematics, Third Edition is a compendium of many mathematical topics for students planning a career in engineering or the sciences. A key strength of this text is Zillâ ™s emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Third Edition is comprehensive, yet flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. Numerous new projects contributed by esteemed mathematicians have been added. Key Features o The entire text has been modernized to prepare engineers and scientists with the mathematical skills required to meet current technological challenges. o The new larger trim size and 2-color design make the text a pleasure to read and learn from. o Numerous NEW engineering and science projects contributed by top mathematicians have been added, and are tied to key mathematical topics in the text. o Divided into five major parts, the textâ ™s flexibility allows instructors to customize the text to fit their needs. The first eight chapters are ideal for a complete short course in ordinary differential equations. o The Gram-Schmidt orthogonalization process has been added in Chapter 7 and is used in subsequent chapters. o All figures now have explanatory captions. Supplements o Complete Instructorâ ™s Solutions: Includes all solutions to the exercises found in the text. PowerPoint Lecture Slides and additional instructorâ ™s resources are available online. o Student Solutions to accompany Advanced Engineering Mathematics, Third Edition: This student supplement contains the answers to every third problem in the textbook, allowing students to assess their progress and review key ideas and concepts discussed throughout the text. ISBN: 0-7637-4095-0

Book Information

Hardcover: 1020 pages

Publisher: Jones & Bartlett Publishers; 3rd edition (February 17, 2006)

Language: English

ISBN-10: 076374591X

ISBN-13: 978-0763745912

Product Dimensions: 1.8 x 8.8 x 11 inches

Shipping Weight: 4 pounds (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 16 customer reviews

Best Sellers Rank: #681,619 in Books (See Top 100 in Books) #74 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Set Theory #4093 inÂ Books > Computers & Technology >

Computer Science #9428 inÂ Books > Textbooks > Computer Science

Customer Reviews

I am not a math major and I don’t consider myself to be a smart person, but I did make "A’s" in Cal I, II, and III. I also made an "A" in Higher Engineering Math/Differential Equations, but it was not because of this book. It is a very difficult book to read in terms of trying to teach yourself differential equations. Fortunately, I had a great teacher. Ironically, he was teaching straight out of this book. If it had not been for him to interpret this book and point out all of the mistakes in the book, I could not have learned this material on my own. The newer version is the same with the mistakes supposedly corrected. If you like to learn theory and proofs while you are learning how to work problems, then you may find this book to be okay. The layout is not presented in a clear manner, and the explanations are not concise. As I mentioned, I am not a math major and I am not going to be proving anything in grad school, so take my opinion with a grain of salt. I am just a user of math.

I used this text in junior year for a one-semester advanced math class. However, this is the biggest textbook I have owned- little of it is applicable to any one class. However, it is fairly clear and readable as mathematics texts go and I have found it to be an excellent reference for independent use afterwards. It explains many useful techniques for confronting ODEs, PDEs, fourier analyses, and introductory complex analysis. It is clear enough to start practice problems without a professor having to tell you how any problems can be solved. It does not have the most detail, but it shouldn’t be- It is a huge comprehensive book, and for further details you probably need a very specialized source anyway.

This book is terrible. The concepts are explained poorly so that each chapter is a struggle to learn the material, I found I was better off learning about the topics from Wikipedia or those "Dummies" books sold at Barnes and Noble. To make matters worse, there are numerous errors in the problems/answers. This makes it impossible for you to determine whether or not you actually understand the material because if you get an answer wrong you are either driving yourself crazy trying to figure out what you did wrong or you are forced to disregard the book’s answer because you assume the book is wrong. Definitely do not buy this book.

nice compilation of topics for advanced students/professionals (in science/engineering/mathematics) who need a good math reference. This is a good choice for you.

perhaps a bit tough if you were just going through it for the first time or on your own without access to a teacher/tutor.

My grandson wanted this book to go with the accompanying manual. He said it was excellent.

Item not as described. Item was softcover when description had hardcover

This book was needed for school it is good quality easy to read has a lot of good information and was useful.

thanks

Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice)