

Download Calculus 4th Edition Answer Book

Michael Spivak

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spivak's celebrated calculus is ideal for mathematics majors seeking an alternative to doorstop textbooks and formidable introductions to real analysis

this little book is especially concerned with those portions of advanced calculus in

which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level the approach taken here uses elementary versions of modern methods found in sophisticated mathematics the formal prerequisites include only a term of linear algebra a nodding acquaintance with the notation of set theory and a respectable first year calculus course one which at least mentions the least upper bound \sup and greatest lower bound \inf of a set of real numbers beyond this a certain perhaps latent rapport with abstract mathematics will be found almost essential

this text combines a compact linear algebra course with a serious dip into various physical applications it may be used as a primary text for a course in linear algebra or as a supplementary text for courses in applied math scientific computation mathematical physics or engineering the text is divided into two parts part 1 comprises a fairly standard presentation of linear algebra chapters 1 3 contain the core mathematical concepts typical for an introductory course while chapter 4 contains numerous short applications chapter 5 is a repository of standard facts about matrix factorization and quadratic forms together with the connective tissue of topics needed for a coherent discussion including the singular value decomposition the jordan normal form sylvester's law of inertia and the witt theorems part i contains around 300 exercises found throughout the text and are an integral part of the presentation part 2 features deeper applications each of these large applications require no more than linear algebra to discuss though the style and arrangement of results would be challenging to a beginning student and more appropriate for a second or later course chapter 6 provides an introduction to the discrete fourier transform including the fast fourier algorithm chapter 7 is a thorough introduction to isometries and some of the classical groups and how these groups have come to be important in physics chapter 8 is a fairly detailed look at real algebras and completes a presentation of the classical lie groups and algebras chapter 9 is a careful discussion of tensors on a finite dimensional vector space finishing with the hodge star operator and the grassmann algebra finally chapter 10 gives an introduction to classical mechanics including noether's first theorem and emphasizes how the classical lie groups discussed in earlier chapters become important in this setting the chapters of part 2 are intended to give a sense of the ubiquity of the indispensable utility of linear algebra in modern science and mathematics and some feel for way it is actually used in disparate subject areas twelve appendices are included the last seven refer to matlab code which though not required and rarely mentioned in the text can be used to augment understanding for example fifty five matlab functions implement every tensor operation from chapter 9 a zipped file of all code is available for download from the author's website

an essential resource for advanced undergraduate and beginning graduate students in

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a new approach to the foundations of single variable calculus based on the introductory course taught at caltech in mathematics cranks are people who insist they understand something new about math even when the world tells them they are doing it wrong this introduction to calculus is written with those cranks in mind based on the foundational course that nets katz teaches at caltech it emphasizes the practical purposes of the foundations such as tracking errors in calculations in addition to covering the basics of single variable calculus the book outlines the mathematical method the ability to express oneself with absolute precision and then to use logical proofs to establish that certain statements are universally true katz emphasizes conceptual clarity as well as testing hypotheses and writing complete proofs the result is a rigorous calculus book of use not only to future mathematicians but also to scientists and engineers

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