Chapter 1 : Books by Tom M. Apostol (Author of Calculus, Volume 1)

Calculus, Vol. 2: Multi-Variable Calculus and Linear Algebra with Applications to Differential by Tom M. Apostol Hardcover $ Only 1 left in stock - order soon. Ships from and sold by agreenhippo1.

This is not "Calculus for Dummies". This is calculus for students who are somewhat clever and somewhat sophisticated, and would like to become more so. There are two volumes. Roughly speaking, Volume I is for the first year of the course, and Volume II is for the second year. These books certainly have the equations and proofs Apostol does a good job with the words that go between the equations, explaining where the equations come from, what they mean, and what you can do with them. They are full of surprises: Volume II contains a couple of chapters on the Calculus of Probabilities. The next surprise is that Apostol formalizes probability in terms of set theory. This has vastly more formality and generality than the usual hand-wavy heuristic approach. It is vastly simpler than the measure-theory approach that mathematicians use when talking to other mathematicians. This is not formality for the sake of formality, but rather generality for the sake of real practical power. Specifically, Apostol makes the point that in any given application, there is more than one way to assign probabilities to the elements of a set. This is serious business. Apostol uses a similar trick when introducing Lebesgue integrals: He uses simple set theory, which turns out to be sufficient to obtain great generality, without having to drag out the heavy machinery of measure theory. Obviously this is a book written by somebody who has taught the course more than once, and who knows how to obtain the best result with the least effort. We see a different conjunction of generality and practical power in the section on differential equations. For linear differential equations, Apostol sets forth the usual systematic methods for obtaining a solution in closed form. Next we come to nonlinear differential equations, which is more of a surprise, because most introductory books avoid this topic like the plague. It turns out that most nonlinear differential equations do not have closed-form solutions, and there is not much in the way of fancy axiomatic methods that are of value. There are however powerful practical methods, such as drawing the flow-fields and trajectories numerically and looking at them. More generally, there are ways you can understand an equation and its solutions even when you did not or cannot write down a closed-form solution. This is excellent advice. If you can only own one calculus text or calculus reference, this is the one you want.

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Tom Mike Apostol (August 20, - May 8,) was an American analytic number theorist and professor at the California Institute of Technology, best known as the author of widely used mathematical textbooks.

Chapter 3 : Tom blog.quintoapp.coml - Calculus Vol.2 - Best Forex, Trading, Stock

Tom M. Apostol has 26 books on Goodreads with ratings. Tom M. Apostol's most popular book is Calculus, Volume 1: One-Variable Calculus with an Intro.

Chapter 4 : Tom M. Apostol - Wikipedia

Calculus - Tom M. Apostol. EMBED (for blog.quintoapp.com hosted blogs and blog.quintoapp.com item tags).

Chapter 5 : Tom M. Apostol, â€" | Caltech

June 23 is the beginning of summer- well timed! I also am looking forward to being finished by about beginning of summer, with the trifecta of calculus books (spivak, courant and apostol; admittingly dependent on your work).

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Chapter 8 : Calculus, Vol 1 by Apostol, Tom M

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Chapter 9 : Calculus, Volume 1 Second Edition | Calculus | Mathematics & Statistics | Subjects | Wiley

Description An introduction to the Calculus, with an excellent balance between theory and technique. Integration is treated before differentiation--this is a departure from most modern texts, but it is historically correct, and it is the best way to establish the true connection between the integral and the derivative.