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Math 20C - Calculus - Fall 2020 - Lecture C (Swanson)

tended to be used with the 6th Edition of our text Vector Calculus. It contains supplementary material that gives further information on various topics in Vector Calculus, including di erent applications and also technical proofs that were omitted from the main text. The supplement is intended for students who wish to gain a deeper un-

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Also, - 1(1,2,1) = (- 1, - 2, - 1). This would be pictured by drawing the vector (1, 2, 1) in the opposite direction. Finally, 4(1,2,1) = (4,8,4)which is four times vector a and so is vector a stretched four times as long in the same direction. 1 0 x-2 0 2 y 0 2 4 z a b a+b 9. Since the sum on the left must equal the vector on the right ...

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This concise text is a workbook for using vector calculus in practical calculations and derivations. Part One briefly develops vector calculus from the beginning; Part Two consists of answered problems. 2020 edition.

Vector calculus is the fundamental language of mathematical physics. It pro vides a way to describe physical quantities in three-dimensional space and the way in which these quantities vary. Many topics in the physical sciences can be analysed mathematically using the techniques of vector calculus. These top ics include fluid dynamics, solid mechanics and electromagnetism, all of which involve a description of vector and scalar quantities in three dimensions. This book assumes no previous knowledge of vectors. However, it is assumed that the reader has a knowledge of basic calculus, including differentiation, integration and partial differentiation. Some knowledge of linear algebra is also required, particularly the concepts of matrices and determinants. The book is designed to be self-contained, so that it is suitable for a pro gramme of individual study. Each of the eight chapters introduces a new topic, and to facilitate understanding of the material, frequent reference is made to physical applications. The physical nature of the subject is clarified with over sixty diagrams, which provide an important aid to the comprehension of the new concepts. Following the introduction of each new topic, worked examples are provided. It is essential that these are studied carefully, so that a full un derstanding is developed before moving ahead. Like much of mathematics, each section of the book is built on the foundations laid in the earlier sections and chapters.

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Designed for courses in advanced calculus and introductory real analysis, Elementary Classical Analysis strikes a careful balance between pure and applied mathematics with an emphasis on specific techniques important to classical analysis without vector calculus or complex analysis. Intended for students of engineering and physical science as well as of pure mathematics.

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