



Vector Calculus

Fourth Edition

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derivations of the orthogonal projection formula and the Cauchy Schwarz inequality appear in Chapter 1 Vectors A description of the geometric interpretation of second order partial derivatives has been added to Chapter 2 Differentiation in Several Variables A description of the interpretation of the Lagrange multiplier has been added to Chapter 4 Maxima and Minima in Several Variables Chapter 5 Multiple Integration adds new terminology to describe elementary regions of integration and more examples of setting up double and triple integrals a new subsection on probability as an application of multiple integrals and new miscellaneous exercises on expected value New examples illustrating interesting uses of Green's theorem have been added to Chapter 6 Line Integrals New miscellaneous exercises have been added in Chapters 1 and 4 for readers more familiar with linear algebra Features of Pearson eText for the 5th Edition For the first time this text is available as a Pearson eText featuring a number of interactive GeoGebra applets Learn more about Pearson eText **Forthcoming Books** Rose Arny, 2001-06 *Multivariate Calculus* Barr, Thomas H. Barr, 1997-01-01 Sm Vector Calculus S/M Hubbard, 1999-06-01 **Vector Calculus** Susan Jane Colley, 2015 **Vector Calculus, Books a la Carte Edition** Susan J. Colley, 2011-12-13 Normal 0 false false false MicrosoftInternetExplorer4 This edition features the exact same content as the traditional text in a convenient three hole punched loose leaf version Books a la Carte also offer a great value this format costs significantly less than a new textbook For undergraduate courses in Multivariable Calculus Vector Calculus Fourth Edition uses the language and notation of vectors and matrices to teach multivariable calculus It is ideal for students with a solid background in single variable calculus who are capable of thinking in more general terms about the topics in the course This text is distinguished from others by its readable narrative numerous figures thoughtfully selected examples and carefully crafted exercise sets Colley includes not only basic and advanced exercises but also mid level exercises that form a necessary bridge between the two Instructors will appreciate the mathematical precision level of rigor and full selection of topics Vector Calculus Miroslav Lovric, 2007-01-03 This book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions Clear and easy to follow writing style carefully crafted examples wide spectrum of applications and numerous illustrations diagrams and graphs invite students to use the textbook actively helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills Particular attention has been given to the material that some students find challenging such as the chain rule Implicit Function Theorem parametrizations or the Change of Variables Theorem *Vector Calculus* Miroslav Lovrić, 2007

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