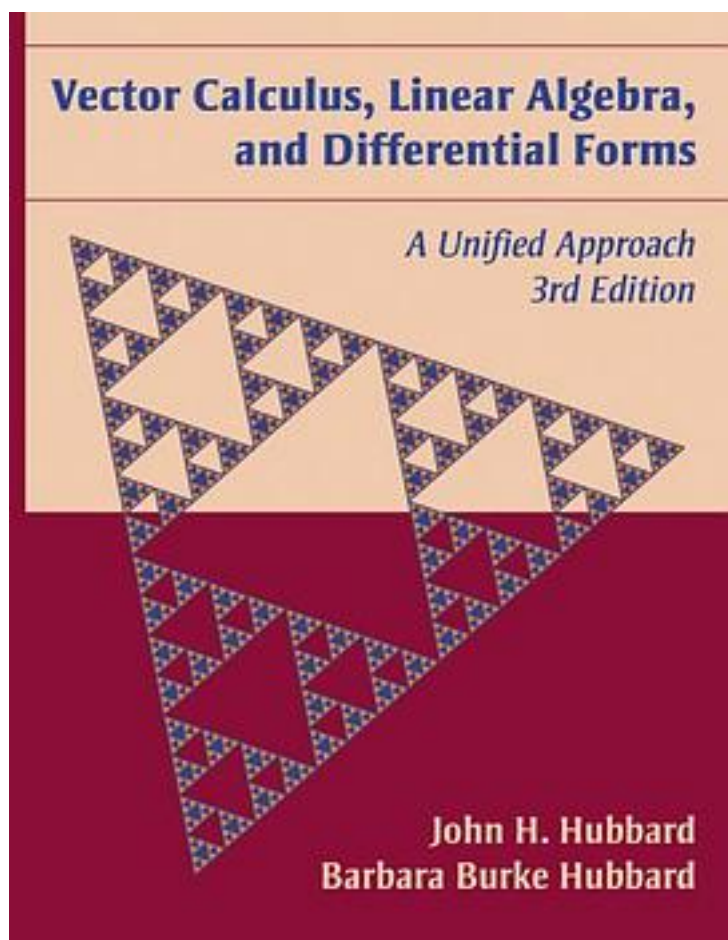# Vector Calculus, Linear Algebra, and Differential Forms

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著者:John H. Hubbard

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Using a dual presentation that is rigorous and comprehensive—yet exceptionaly reader-friendly</U> in approach—this book covers most of the standard topics in

multivariate calculus and an introduction to linear algebra. It focuses in underlying ideas, integrates theory and applications, offers a host of learning aids, features coverage of differential forms, and emphasizes numerical methods that highlight modern applications of mathematics. The revised and expanded content of this edition includes new discussions of functions; complex numbers; closure, interior, and boundary; orientation; forms restricted to vector spaces; expanded discussions of subsets and subspaces of R^n</U>; probability, change of basis matrix; and more. For individuals interested in the fields of mathematics, engineering, and science—and looking for a unified approach and better understanding of vector calculus, linear algebra, and differential forms.

作者介绍:

John Hamal Hubbard was born on October 6 or 7, 1945 (the actual date is unknown). He is an American mathematician who is currently a professor at Cornell University and the Université de Provence. He is well known for the mathematical contributions he made with Adrien Douady in the field of complex dynamics, including a study of the Mandelbrot set. One of their most important results is that the Mandelbrot set is connected.Hubbard graduated with a Doctorat d'État from Université de Paris-Sud in 1973 under the direction of Adrien Douady; his thesis was entitled Sur Les Sections Analytiques de La Courbe Universelle de Teichmüller and was published by the American Mathematical Society.

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