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prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of

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sophistication. As

possible introductory

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Differential and

Integral Calculus by R

Courant, Calculus by

T Apostol, Calculus

by M Spivak, and

Pure Mathematics by

G Hardy. The reader

should also have

some experience with

partial derivatives. In

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Overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

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definitions), continuity  
(including an  
appreciation of the  
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mere pointwise and  
uniform continuity),  
the derivative (with  
rigorous proofs of  
various versions of  
L'Hôpital's rule) and  
the Riemann integral

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(discussing improper integrals in-depth, including the comparison and Dirichlet tests).

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This book is a student

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guide to the applications of differential and integral calculus to vectors. Such material is normally covered in the later years of an engineering or applied physical sciences degree course, or the first and second years of a mathematics degree course. The emphasis is on those

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features of the subject that will appeal to a user of mathematics, rather than the person who is concerned mainly with rigorous proofs. The aim is to assist the reader to acquire good proficiency in algebraic manipulation that can be used in critically assessing the results



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reasoning. This  
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follows this programme, but additionally provides a solid description of the basic concepts, via familiar examples, which are then tested in technically demanding situations. In this new edition the introductory chapter and two of the chapters on the geometry of surfaces

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have been revised. Some exercises have been replaced and others provided with expanded solutions. Familiarity with partial derivatives and a course in linear algebra are essential prerequisites for readers of this book. Multivariate Calculus and Geometry is aimed primarily at

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higher level  
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mathematical  
sciences. The  
inclusion of many  
practical examples  
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several variables will  
appeal to  
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students.

This book goes  
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beyond the basics of a first course in calculus to reveal the power and richness of the subject. Standard topics from calculus — such as the real numbers, differentiation and integration, mean value theorems, the exponential function — are reviewed and elucidated before

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