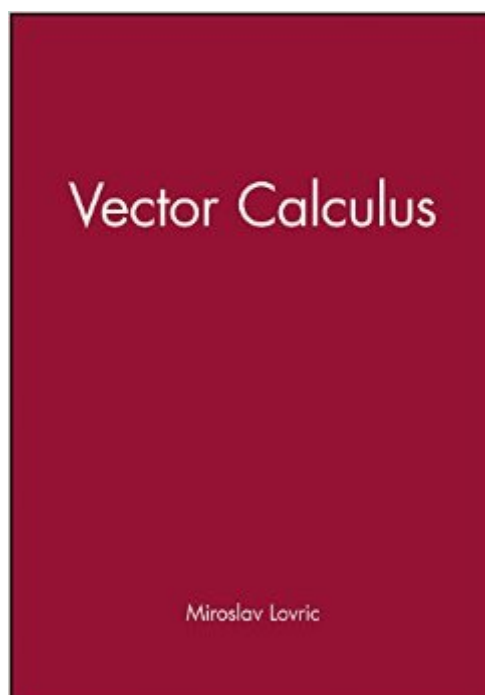


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# Vector Calculus, Student Solutions Manual



## Synopsis

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.

## Book Information

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Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (6 customer reviews)

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## Customer Reviews

I took vector calculus last year and didn't do too well. The book we used then was Vector Calculus by Marsden and Tromba: a truly awful textbook. So I decided to retake the course, and the book we're using this time is Vector Calculus by Miroslav Lovric. This book is really well-written, and has good example and exercise problems. The author is actually a math prof at our university, and is one of the best! There are 8 chapters: 1) Vectors, Matrices, and Applications 2) Calculus of Functions of Several Variables 3) Vector-Valued Functions of One Variable 4) Scalar and Vector Fields 5) Integration Along Paths 6) Double and Triple Integrals 7) Integration Over Surfaces, Properties, and Applications of Integrals 8) Classical Integration Theorems of Vector Calculus. Definitely a good purchase! You can probably self-study from this book.

After taking calculus, linear algebra, and differential equations, this is the first math textbook I have actually appreciated. Even with the plethora of free online resources I still found myself reading this book a lot. Unlike other math textbooks:- Explanations were concise and clear- Diagrams illustrating the concepts were abundant- Examples were well-explained and helpful After reading this textbook I felt competent not only in doing the calculations, but also in understanding the underlying concepts.

Though I have not read too far in the book, from what I have read and skimmed, I can tell that this was a great purchase. The book has countless diagrams and accompanying pictures to help facilitate the concepts of vector calculus (which is great because the topic can be very spatial). I also find the text to be well written and geared towards bringing the reader from any level of understanding towards a full level of understanding.

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