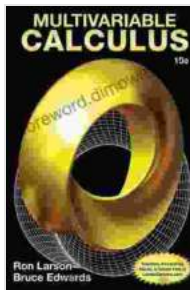


# Multivariable Calculus by Richard Brualdi: A Comprehensive Guide to Advanced Calculus

Multivariable calculus is a branch of mathematics that deals with functions of several variables. It is used in a wide variety of applications, including physics, engineering, and economics. Multivariable Calculus by Richard Brualdi is an authoritative and comprehensive guide to this important subject.

The book begins with a review of the basic concepts of single-variable calculus. This includes topics such as limits, derivatives, and integrals. Brualdi then introduces the concept of a vector field. A vector field is a function that assigns a vector to each point in space. Vector fields are used to represent a variety of physical phenomena, such as velocity and force.



## Multivariable Calculus by Richard A. Brualdi

★★★★★ 5 out of 5

Language : English

File size : 25428 KB

Screen Reader : Supported

Print length : 480 pages

Lending : Enabled



The next chapter covers partial derivatives. Partial derivatives are used to calculate the rate of change of a function with respect to one of its variables. Brualdi provides a clear and concise explanation of this important topic.

The book then moves on to multiple integrals. Multiple integrals are used to calculate the volume of a solid region. Brualdi provides a step-by-step guide to this complex topic.

The final chapter of the book covers differential forms. Differential forms are a powerful tool for studying multivariable calculus. Brualdi provides a clear and concise to this topic.

Multivariable Calculus by Richard Brualdi is an essential resource for students and professionals alike. It is a clear and comprehensive guide to this important subject.

### **Benefits of Using Multivariable Calculus by Richard Brualdi**

- Provides a comprehensive overview of multivariable calculus
- Covers a wide range of topics, including vector calculus, partial derivatives, multiple integrals, and differential forms
- Written in a clear and concise style
- Contains numerous examples and exercises
- Ideal for students and professionals alike

### **Who Should Use Multivariable Calculus by Richard Brualdi?**

Multivariable Calculus by Richard Brualdi is an ideal resource for:

- Students taking a multivariable calculus course
- Professionals who use multivariable calculus in their work
- Anyone who wants to learn more about multivariable calculus

## About the Author

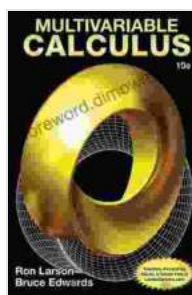
Richard Brualdi is a professor of mathematics at the University of Wisconsin-Madison. He is the author of several books on mathematics, including Multivariable Calculus, Advanced Linear Algebra, and Combinatorial Matrix Theory.

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