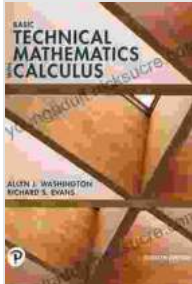


Basic Technical Mathematics With Calculus: A Comprehensive Guide to Mathematical Concepts and Techniques



Basic Technical Mathematics with Calculus (2-downloads) by Thomas Golf

★★★★☆ 4.4 out of 5

Language : English

File size : 86114 KB

Screen Reader: Supported

Print length : 1128 pages



Mathematics is the language of science and engineering, and it is essential for anyone who wants to succeed in these fields. Basic technical mathematics is a branch of mathematics that focuses on the concepts and techniques that are most commonly used in technical applications. Calculus is a branch of mathematics that deals with the rate of change, and it is an essential tool for solving many problems in technical fields.

This book is a comprehensive guide to basic technical mathematics with calculus. It covers the following topics:

- Algebra
- Trigonometry
- Analytic geometry
- Calculus

This book is written in a clear and concise style, and it is packed with examples and exercises to help you learn the material. Whether you are a student or a professional engineer, this book will provide you with a solid foundation in basic technical mathematics.

Algebra

Algebra is the branch of mathematics that deals with the symbols and operations that are used to represent and solve equations.

The following are some of the most important algebraic concepts:

- Variables
- Equations
- Functions
- Polynomials
- Matrices

Algebra is used in a wide variety of technical applications, including:

- Solving equations for unknown variables
- Modeling physical systems with mathematical equations
- Designing and analyzing algorithms

Trigonometry

Trigonometry is the branch of mathematics that deals with the relationships between the sides and angles of triangles.

The following are some of the most important trigonometric concepts:

- Sine
- Cosine
- Tangent
- Law of sines
- Law of cosines

Trigonometry is used in a wide variety of technical applications, including:

- Solving problems involving triangles
- Navigation
- Surveying
- Architecture

Analytic Geometry

Analytic geometry is the branch of mathematics that deals with the representation of geometric figures using algebraic equations.

The following are some of the most important analytic geometry concepts:

- Coordinate systems
- Lines
- Circles
- Ellipses

- Parabolas

Analytic geometry is used in a wide variety of technical applications, including:

- Computer graphics
- Robotics
- Civil engineering
- Mechanical engineering

Calculus

Calculus is the branch of mathematics that deals with the rate of change.

The following are some of the most important calculus concepts:

- Derivatives
- Integrals
- Limits
- Series
- Differential equations

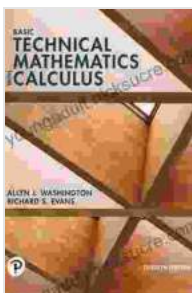
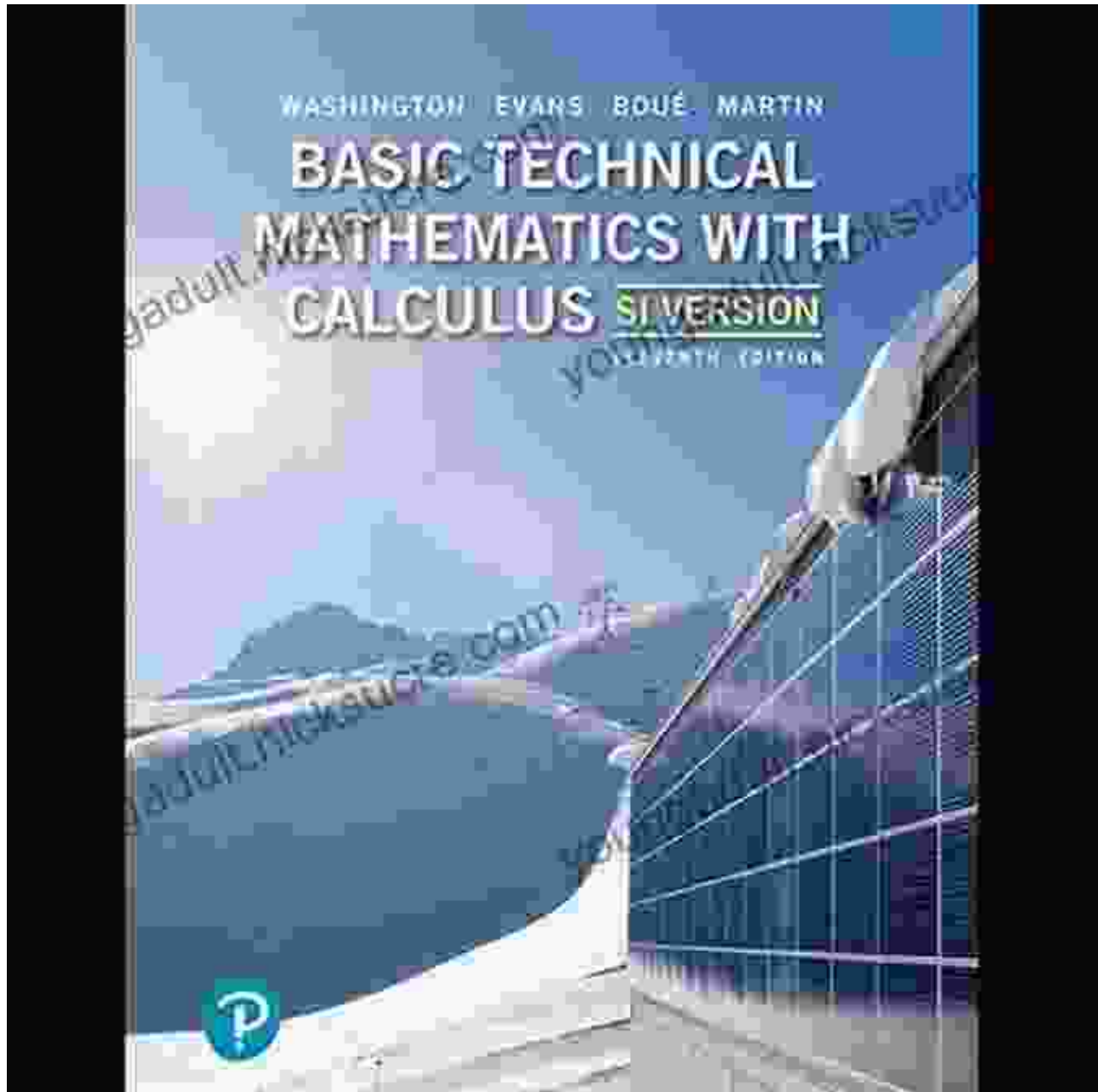
Calculus is used in a wide variety of technical applications, including:

- Solving problems involving motion
- Calculating areas and volumes
- Modeling physical systems with differential equations

- Designing and analyzing algorithms

Basic technical mathematics with calculus is an essential tool for anyone who wants to succeed in a technical field. This book provides a comprehensive guide to the most important mathematical concepts and techniques, and it is packed with examples and exercises to help you learn the material.

Whether you are a student or a professional engineer, this book will provide you with a solid foundation in basic technical mathematics.



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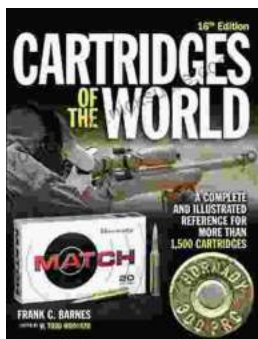
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