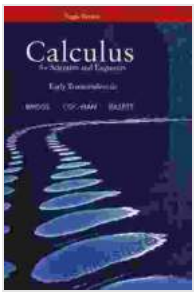
Calculus for Scientists and Engineers: Early Transcendentals (Downloads)

Calculus for Scientists and Engineers: Early Transcendentals is a calculus textbook widely used in undergraduate STEM courses. Authored by William L. Briggs, Lyle Cochran, Bernard Gillett, and Eric Schulz, the book provides a comprehensive to calculus with a focus on applications in science and engineering.



Calculus for Scientists and Engineers: Early Transcendentals (2-downloads) by William L. Briggs

4.4 out of 5

Language	: English
File size	: 50239 KB
Screen Reader	: Supported
Print length	: 1344 pages

Content and Structure

The book is divided into three parts:

- **Part 1: Functions, Graphs, and Models** introduces the concepts of functions, limits, continuity, derivatives, and integrals.
- **Part 2: Techniques of Integration** covers various integration techniques, including u-substitution, integration by parts, and trigonometric integration.

- **Part 3: Applications of Integration** explores applications of integration in areas such as physics, engineering, and biology.

Each part is further divided into chapters, which are organized in a logical progression. The book follows a traditional approach to calculus, with a focus on theoretical foundations before moving on to applications.

Pedagogy

Calculus for Scientists and Engineers: Early Transcendentals is known for its clear and concise writing style. The authors use straightforward language and ample examples to explain complex concepts in an accessible manner. The book also features:

- **Numerous practice problems** that reinforce key concepts and provide opportunities for students to test their understanding.
- **Real-world examples** that demonstrate the practical applications of calculus in various fields.
- **Concept Checks**, short quizzes interspersed throughout the text, that allow students to assess their progress.
- **Lab Projects** that encourage students to explore calculus concepts through hands-on experiments.
- **Chapter Projects**, more extensive projects that provide students with opportunities to synthesize their knowledge and apply calculus to real-world problems.

Audience Suitability

Calculus for Scientists and Engineers: Early Transcendentals is primarily designed for undergraduate STEM students who require a strong foundation in calculus. It is particularly suitable for students in the following fields:

- **Engineering** (mechanical, electrical, civil, etc.)
- **Mathematics and physics**
- **Computer science**
- **Life sciences** (biology, chemistry, etc.)

The book can also be used as a reference for professionals in these fields who need to refresh their knowledge of calculus or gain a deeper understanding of its applications.

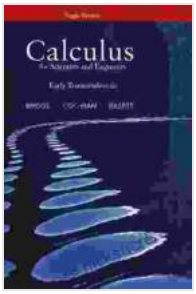
Downloads

Calculus for Scientists and Engineers: Early Transcendentals is available for purchase as a physical textbook or in various digital formats, including:

- Kindle
- Nook
- Google Play
- VitalSource

The digital versions offer additional features such as interactive content, quizzes, and self-assessments.

Calculus for Scientists and Engineers: Early Transcendentals is a comprehensive and well-written calculus textbook that provides a solid foundation for students in STEM fields. Its clear explanations, ample practice problems, and real-world applications make it an excellent choice for both students and professionals.



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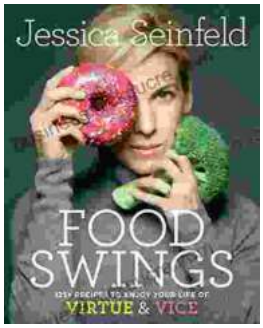

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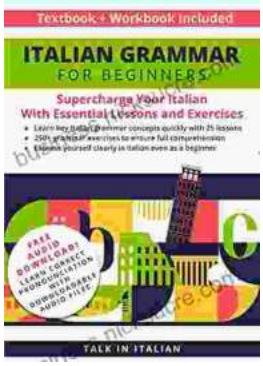

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