

By Brian E Blank Calculus Multivariable Student Study And Solutions Companion 2nd Second Edition Paperback

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780470601983 .

The writing of this text is cogent, clear, and compelling-Insight, A Look Back, A Look Forward, Quick Quiz, Preview, Basics, Key/Basic Steps, Summary of Key Topics, Genesis and Development Builds on what students saw in High School. Refines mathematical skills and expands conceptual horizons. Differential equations are introduced early, given a natural treatment and used often-to explain exponentials, bacterial growth and in various modeling applications. Technology is an essential part of modern life. It is used throughout the book in a natural and comfortable manner. Students see how mathematical scientists think about numerical questions. Modeling is key to Blank and Krantz. Calculus contains numerous examples from economics, and science and social sciences. Applications are not “made up” or artificial. They are shown as an essential part of the way we think about Mathematics and the world around us. Full Treatment of exciting topics like Kepler’s Laws (12.5), applications to economics (3.9, 4.9, 4.7, 8.7), probability theory (8.3, 8.7), Atomic Physics (7.1), Mechanics (6.6, 6.7) and the Physics of baseball (12.2). Text addresses Calculus as instructors and students want to see it. Exercise sets have real depth and are organized into three groups; skills exercises(Problems for Practice), thought exercises(Further Theory and Practice), and technology exercises(Calculator/Computer Sciences) Enrichment Material-Example: Section 4.8 is about applications to economics. The Genesis of Development sections explore byways, additional ideas, history and some proofs. Sequences are introduced early and used throughout to motivate key ideas like limits, exponentials and series.

In order to show scientists and engineers how to apply calculus, this edition places a greater emphasis on conceptual understanding. It provides a nice balance between rigor and accessibility that will challenge them. Unique elements are integrated throughout that deepen the appreciation for calculus. Numerous nonstandard challenging exercises build better math skills. Innovative approaches on topics such as limits also help uncover new areas of learning for scientists and engineers.

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* Clear writing and crisp, clean motivation for key topics. * Useful and fascinating applications on a range of subjects to appeal to students in all majors. * Complete exercise sets with three categories of problems—Drill, Further Theory and Practice, and Calculator/Computer Exercises. * Genesis & Development sections in each chapter, which provide history and perspective on the evolution of calculus. * Computer modeling and numerical calculations throughout the text and in the exercise sets.

Blank and Krantz’s Calculus brings together time-tested methods and innovative thinking to address the needs of today’s readers, who come from a wide range of backgrounds and look ahead to a variety of futures. Some study the subject because it is required, others because it will widen their career options. Mathematics majors go into law, medicine, genome research, the technology sector, and many other professions. Blank and Krantz’s Calculus strives to empower these readers, enhance their critical thinking skills, and equip them with the knowledge and skills to succeed in the career path they ultimately choose to follow.

Calculus is one of the milestones of human thought, and has become essential to a broader cross-section of the population in recent years. This two-volume work focuses on today’s best practices in calculus teaching, and is written in a clear, crisp style.

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