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Applied Calculus for Scientists and Engineers is an invitation to an intellectual journey into a discipline that has profoundly influenced the development of Western Civilization for more than three hundred years. The author takes a functional pedagogical approach through the use of a dialogue-based writing style that is uniquely suited to make transparent the essential problem-solving strategies. As the text follows Simplicio and Sophie in their struggle to understand the teacher's explanations, students will find that many of their own difficulties are adequately addressed and elegantly resolved. The text is centered on the idea that good teaching must bring knowledge to life. True to this premise, the author has taken great care to present all mathematical subjects within the context of stimulating applications that cover a wide range of topics in science and engineering. Also included are engaging discussions of the historical and philosophical background that gave the discipline of calculus its present shape. Indeed, it is the central focus on applications combined with a commitment to very high standards of expository writing that sets this book apart from the competition. Volume 1 covers differentiation, integration, special functions, methods of integration, Taylor approximation, and differential equations, and Volume 2 covers linear algebra, systems of differential equations, and vector calculus.

This book presents the basic concepts of calculus and its relevance to real-world problems, covering the standard topics in their conventional order. By focusing on applications, it allows readers to view mathematics in a practical and relevant setting. Organized into 12 chapters, this book includes numerous interesting, relevant and up-to date applications that are drawn from the fields of business, economics, social and behavioural sciences, life sciences, physical sciences, and other fields of general interest. It also features MATLAB, which is used to solve a number of problems. The book is ideal as a first course in calculus for mathematics and engineering students. It is also useful for students of other sciences who are interested in learning calculus.

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This book is a nonconventional text laying emphasis on the WHY's of mathematics rather than the HOW's. It covers the study of functions of a real variable with the attempt of motivating students about the abstract concepts thereby helping overcome their aversion for abstraction.

Focusing on the "why's" of mathematics rather than the "how's," the unique approach of this text will appeal to a wide range of readers, from those taking a first course in calculus to those seeking deeper insights or needing a transition from calculus to analysis. The author takes care to supply strong motivations for abstract concepts, thereby helping beginners overcome the intimidation often felt when first confronting abstraction. While emphasizing the "why's," the book does not entirely neglect the "how's" and provides sufficient exposure to the techniques through numerous exercises, with answers supplied in the back of the book.

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Calculus for Engineering Students: Fundamentals, Real Problems, and Computers insists that mathematics cannot be separated from chemistry, mechanics, electricity, electronics, automation, and other disciplines. It emphasizes interdisciplinary problems as a way to show the importance of calculus in engineering tasks and problems. While concentrating on actual problems instead of theory, the book uses Computer Algebra Systems (CAS) to help students incorporate lessons into their own studies. Assuming a working familiarity with calculus concepts, the book provides a hands-on opportunity for students to increase their calculus and mathematics skills while also learning about engineering applications. Organized around project-based rather than traditional homework-based learning Reviews basic mathematics and theory while also introducing applications Employs uniform chapter sections that encourage the comparison and contrast of different areas of engineering

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