



Calculus, Second Edition

Gilbert Strang

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Calculus, Second Edition

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Gilbert Strang's clear, direct style and detailed, intensive explanations make this textbook ideal as both a course companion and for self-study. Single variable and multivariable calculus are covered in depth. Key examples of the application of calculus to areas such as physics, engineering and economics are included in order to enhance students' understanding. New to the second edition is a chapter on the 'Highlights of Calculus', which accompanies the popular video lectures by the author on MIT's OpenCourseWare. (These can be accessed from math.mit.edu/~gs).

Contents: Preface; Supporting Materials; To the Student; Chapter 0: Highlights of Calculus; Chapter 1: Introduction to Calculus; Chapter 2: Derivatives; Chapter 3: Applications of the Derivative; Chapter 4: The Chain Rule; Chapter 5: Integrals; Chapter 6: Exponentials and Logarithms; Chapter 7: Techniques of Integration; Chapter 8: Applications of the Integral; Chapter 9: Polar Coordinates and Complex Numbers; Chapter 10: Infinite Series; Chapter 11: Vectors and Matrices; Chapter 12: Motion along a Curve; Chapter 13: Partial Derivatives; Chapter 14: Multiple Integrals; Chapter 15: Vector Calculus; Chapter 16: Mathematics after Calculus; Student Study Guide: Chapter 1; Answers to Odd-Numbered Problems; Index

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