

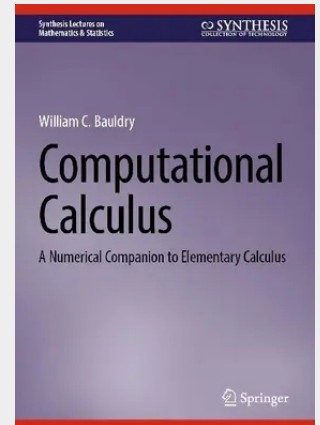
Bauldry

Computational Calculus

A Numerical Companion to Elementary Calculus

This book offers readers the methods that are necessary to apply the power of calculus to analyze real problems. While most calculus textbooks focus on formula-based calculus, this book explains how to do the analysis of calculus, rates of change, and accumulation from data. The author's introductory approach prepares students with the techniques to handle numerically-based problems in more advanced classes or in real-world applications. This self-contained book uses the computer algebra system Maple for computation, and the material is easily adaptable for calculators or other computer algebra systems. The author includes historical context and example exercises throughout the book in order to provide readers with a thorough understanding of the topic. This book: - Prepares students with the techniques to handle numerically-based problems in real-world applications - Provides historical context and example exercises to give a thorough understanding of the topic - Utilizes Maple for computation and is adaptable for calculators or other computer algebra systems

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