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- Applications of Derivatives

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- Applications of Integrals
- Differential Equations
- Multivariable Calculus (partial derivatives, multiple integrals)
- Vector Calculus

Emphasis on Applications

The book highlights how calculus is applied across various fields:

- Physics (motion, forces, electromagnetism)
- Economics (cost functions, optimization)
- Biology (population models)
- Engineering (signal processing, systems analysis)
- Computer Science (algorithms, graphics)

Supplementary Topics

- Series and Sequences
- Parametric Equations
- Polar Coordinates
- Numerical Methods
- Computer Algebra System (CAS) integration

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