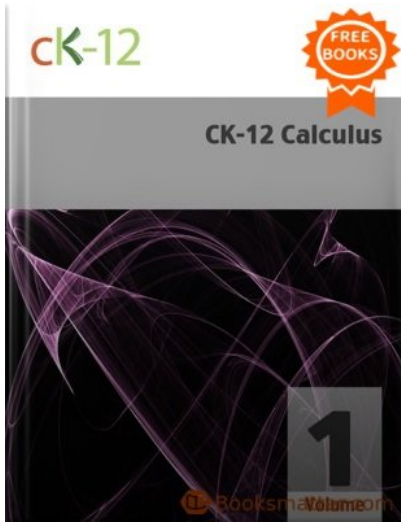


CK-12 Calculus, Volume 1

CK-12 CALCULUS, VOLUME 1 EBOOK AUTHOR BY CK-12 FOUNDATION

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Release on: 2010-11-04

ID Number: CK-4729FCEB5E - Lang: US ENGLISH

Format: PDF, ePub, Kindle, Audiobook

Size: 5.4 MB

Genre: Mathematics

Summary

CK-12 Foundation's Calculus, Volume 1 FlexBook covers the following four chapters:
 Functions, Limits, and Continuity - A review of the basics of functions is given. Students use linear approximations to study the limit process, before a more formal treatment of limits is given.
 Differentiation - Students explore instantaneous rate of change, and the relationship between continuity and differentiability. The Chain Rule and implicit differentiation are reviewed.
 Applications of Derivatives - Students gain practice with using the derivatives in related rates problems. Additional topics include The First Derivative Test, The Second Derivative Test, limits at infinity, optimization, and approximation errors.
 Integration - This chapter includes indefinite integrals calculus, initial value problems, definite integrals, the Fundamental Theorem of Calculus, integration by substitution, and numerical integration.

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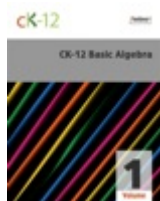
[CK-12 BIOLOGY INTERACTIVE EDITION](#)



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Summary CK-12 Calculus, Volume 1 Book

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CK-12 Foundation's Basic Algebra, Volume 1 FlexBook covers the following six chapters: Expressions, Equations, and Functions - covers the relationships among expressions, equations, and functions when variables are present. Also explored is how these ideas can be shown on graphs. Properties of Real Numbers - covers various forms that rational numbers can assume, including fractions, integers, and square roots. Also considered are different operations for manipulating rational numbers. ...

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CK-12 Foundation's People's Physics Book Version 2 Covers the following chapters: Units and Problem Solving- Units, conversions, measurements & symbols Energy Conservation- 5 laws One-Dimensional Motion- motion, velocity, acceleration & deceleration Two Dimensional and Projectile Motion- motion & velocity Newton's Laws- study of motion, acceleration & force Centripetal Forces- study of force, velocity changes, net-forces, applied forces & acceleration Momentum ...

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CK-12 Foundation's Calculus, Volume 2 FlexBook covers the following four chapters: Applications of Integration - This chapter includes applications of the definite integral, such as calculating areas between two curves, volumes, length of curves, and other real-world applications in physics and statistics. Transcendental Functions - This chapter includes differentiation and integration of logarithmic and exponential functions, exponential growth and decay, derivatives and ...

[CK-12 BASIC PHYSICS - SECOND EDITION](#)



CK-12 Basic Physics - Second Edition covers the following chapters:
Units: This chapter covers the basic units used in physics, guidelines for using units, and their importance within physics.
Wave: This chapter covers objects in harmonic motion, which are defined as objects that return to the same position after a fixed period of time. Objects in harmonic motion have the ability to transfer some of their energy over large distances.
Light Nature: This chapter covers the ...

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CK-12 Foundation's Basic Algebra, Volume 2 FlexBook covers the following six chapters: Systems of Equations and Inequalities; Counting Methods - introduces students to linear systems of equations and inequalities as well as probability and combinations. Operations on linear systems are covered, including addition, subtraction, multiplication, and division. Exponents and Exponential Functions - covers more complex properties of exponents when used in functions. Exponential decay and growth ...

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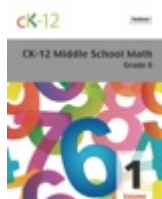
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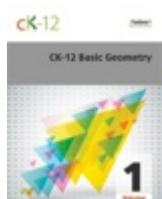
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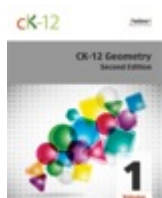
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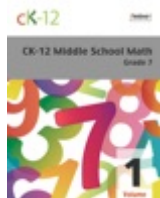
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