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The Larson CALCULUS program has a long history of innovation in the calculus market. It has been widely praised by a generation of users

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for its solid and effective pedagogy that addresses the needs of a broad range of teaching and learning styles and environments. Each title is just one component in a comprehensive calculus course program that carefully integrates and coordinates print, media, and technology products for successful

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teaching and learning.
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Mathematics plays an important role in mechanics and other human endeavours.

Validating examples in this first volume include, for instance: the connection between the golden ratio (the "divine proportion" used by Phidias and many other artists and enshrined in Leonardo's Vitruvian

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Man, shown on the front cover), and the Fibonacci spiral (observable in botany, e.g., in the placement of sunflower seeds); is the coast of Tuscany infinitely long?; the equal-time free fall of a feather and a lead ball in a vacuum; a simple diagnostic for changing your car's shocks; the Kepler laws of the

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planets; the dynamics of the Sun-Earth-Moon system; the tides' mechanism; the laws of friction and a wheel rolling down a partially icy slope; and many more. The style is colloquial. The emphasis is on intuition - lengthy but intuitive proofs are preferred to simple non-intuitive ones. The mathematical/

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mechanical

sophistication gradually

increases, making the

volume widely

accessible. Intuition is

not at the expense of

rigor. Except for

grammar-school

material, every

statement that is later

used is rigorously

proven. Guidelines that

facilitate the reading of

the book are presented.

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The interplay between mathematics and mechanics is presented within a historical context, to show that often mechanics stimulated mathematical developments - Newton comes to mind.

Sometimes mathematics was introduced independently of its mechanics applications, such as the absolute

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*calculus for Einstein's
general theory of
relativity. Bio-sketches
of all the scientists
encountered are
included and show that
many of them dealt with
both mathematics and
mechanics.*

*Calculus and Analytic
Geometry*

*Calculus and Analytic
Geometry. Part. 1.*

Functions of One

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*Variable, Analytic
Geometry, and Infinite
Series*

*Calculus with Analytic
Geometry*

Single Variable Version

*Calculus and Analytic
Geometry, 7th*

Introductory Calculus:
Second Edition, with
Analytic Geometry and
Linear Algebra is an
introductory text on
calculus and includes

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topics related to
analytic geometry and
linear algebra.

Functions and graphs
are discussed, along
with derivatives and
antiderivatives, curves
in the plane, infinite
series, and differential
equations. Comprised
of 15 chapters, this
book begins by
considering vectors in
the plane, the straight

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line, and conic sections.

The next chapter presents some of the basic facts about functions, the formal definition of a function, and the notion of a graph of a function.

Subsequent chapters examine the derivative as a linear transformation; higher derivatives and the mean value theorem;

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applications of graphs;
and the definite
integral.

Transcendental
functions and how to
find an antiderivative
are also discussed,
together with the use of
parametric equations to
determine the curve in
a plane; how to solve
linear equations;
functions of several
variables and the

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derivative and integration of these functions; and problems that lead to differential equations. This monograph is intended for students taking a two- or three-semester course in introductory calculus. An authorised reissue of the long out of print classic textbook, *Advanced Calculus* by

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the late Dr Lynn
Loomis and Dr Shlomo
Sternberg both of
Harvard University has
been a revered but hard
to find textbook for the
advanced calculus
course for decades.
This book is based on
an honors course in
advanced calculus that
the authors gave in the
1960's. The
foundational material,

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presented in the
Single Volume
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unstarred sections of
Chapters 1 through 11,
was normally covered,
but different
applications of this
basic material were
stressed from year to
year, and the book
therefore contains more
material than was
covered in any one
year. It can accordingly
be used (with

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omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The

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reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure

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Mathematics by G
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Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with

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the calculus of
differentiable
manifolds.

The Calculus, with
Analytic Geometry:
Functions of one
variable, plane analytic
geometry, and infinite
series

Early Transcendentals,
2e

Calculus, with Analytic
Geometry : Functions
of One Variable

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Eighth Edition

Calculus and Analytic
Geometry: Function of
one variable and
analytic geometry

*This book introduces
and develops the
differential and integral
calculus of functions of
one variable.*

*An Introduction to
Analytic Geometry and*

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Calculus covers the basic concepts of analytic geometry and the elementary operations of calculus. This book is composed of 14 chapters and begins with an overview of the fundamental relations of the coordinate system. The next chapters deal with the fundamentals of straight line, nonlinear

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*equations and graphs,
functions and limits,
and derivatives. These
topics are followed by a
discussion of some
applications of
previously covered
mathematical subjects.
This text also considers
the fundamentals of the
integrals, trigonometric
functions, exponential
and logarithm
functions, and methods*

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*of integration. The
final chapters look into
the concepts of*

*parametric equations,
polar coordinates, and
infinite series. This
book will prove useful
to mathematicians and
undergraduate and
graduate mathematics
students.*

*Part I Functions of
One Variable and
Analytic Geometry Part*

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Analytic Geometry
*2: Vectors and
Functions of Several
Variables*

*Thomas' Calculus
Calculus*

*Technical Calculus
with Analytic Geometry
Introductory Calculus*

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Calculus, Second
Edition discusses
the techniques and
theorems of
calculus. This
edition introduces

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the sine and cosine functions, distributes ?-? material over several chapters, and includes a detailed account of analytic geometry and vector analysis. This book also discusses the equation of a straight line, trigonometric limit,

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derivative of a
power function,
mean value
theorem, and
fundamental
theorems of
calculus. The
exponential and
logarithmic
functions, inverse
trigonometric
functions, linear and
quadratic
denominators, and

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centroid of a plane region are likewise elaborated. Other topics include the sequences of real numbers, dot product, arc length as a parameter, quadric surfaces, higher-order partial derivatives, and Green's theorem in the plane. This publication is a

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good source for
students learning
calculus.

Calculus and
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calculus
functions of one
variable and analytic
geometry
Single Variable
Calculus with
Analytic Geometry
Advanced Calculus

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text offers a
balanced approach
that combines the
theoretical
instruction of
calculus with the
best aspects of
reform, including
creative teaching**

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and learning techniques such as the integration of technology, the use of real-life applications, and mathematical models. The Calculus with Analytic Geometry Alternate, 6/e, offers a late

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trigonometry for
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first volume**

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Volume One could be used as an advanced high school textbook, as it starts with middle level algebra, geometry and trigonometry. All the Mathematics You Missed

The Calculus of a

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statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the

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exercises to test*

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along with
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Analytic
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Transcendentals
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