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minimum of
prerequisites. It
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concepts to derive
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regression,

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principal

component

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practical
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chapter includes
worked examples
and exercises to
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cover surfaces
with shapes.
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McGraw-Hill's
leading calculus
text for the
3-semester
sequence taken
primarily by
math,
engineering, and
science majors.***

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***The revision is
substantial and
has been
influenced by
students,
instructors in
physics,
engineering, and
mathematics, and
participants in
the national
debate on the
future of***

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calculus. Revision

focused on these

key areas:

Upgrading

graphics and

design,

expanding range

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motivation,

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chapters, and

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approach, with
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of exponential and trigonometric functions, distinguishes this bestselling text." -- Amazon.com viewed May 14, 2021.

This manual includes worked-out solutions to every odd-numbered exercise

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Calculus (Chapters
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style and real-
world examples.

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courses, this
book offers
ideas on calcula
tor/computer
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Wanted to Know

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Raising Children
but Were Too
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Student's
Solutions Manual
for Calculus
with Analytic

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Geometry, Fifth
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J. Purcell, Dale
Varberg

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Calculus

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concise and
informal
introductory
book on the
mathematical
concepts that

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underpin
computer
graphics. The
author, John
Vince, makes
the concepts
easy to
understand,
enabling non-
experts to come
to terms with
computer
animation work.

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field of
computer
graphics,
virtual
reality,
computer
animation, as
well as
students on
digital media
courses, and
even
mathematics

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traditional
text offers a
balanced
approach that
combines the
theoretical
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calculus with
the best
aspects of
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Curious helps
students fully**

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and successfully
grasp its concepts.
The foundational
premise is that
calculus is, at its
most basic, about
measuring things
and how fast they
change. The
material gives non-
majors an
appreciation for
calculus and**

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**fundamentals
discovered by
Newton and Leibniz
and their varied
applications.
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encouraged to
engage in
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reading by referring
to the examples in
the chapters and
then checking each
step independently.**

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calculus, science,
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excellent learning
tool for students in
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Shlomo Sternberg
both of Harvard
University has been a
revered but hard to
find textbook for the
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an honors course in
advanced calculus
that the authors gave
in the 1960's. The*

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foundational material, presented in the 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

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one year. It can accordingly be used (with 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

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*mathematically
rigorous point of
view, together with
some acquaintance
with linear algebra.
The reader should be
familiar with limit
and continuity type
arguments and have a
certain amount of
mathematical
sophistication. As
possible introductory*

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texts, we mention

*Differential and
Integral Calculus by
R Courant, Calculus
by T Apostol, Calculus
by M Spivak, and
Pure Mathematics by
G Hardy. The reader
should also have some
experience with
partial derivatives. In
overall plan the book
divides roughly into a*

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*first half which
develops the calculus
(principally the
differential calculus)
in the setting of
normed vector spaces,
and a second half
which deals with the
calculus of
differentiable
manifolds.*

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book has made the mastery of traditional calculus skills a priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas. The text's evolving range of conceptual, technological, and

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always allowed
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carefully graded
exercises, each set
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problems to more
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involving
applications and
proofs."New! P.S.*

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concepts."New!

*Getting at the
Concept Exercises
added to each
section exercise set
check students'
understanding of the
basic concepts.*

*Located midway
through the exercise
set, they are both
boxed and titled for*

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easy
reference."New!

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students to target concepts requiring review. "New! The icon "IC" in the text identifies examples that appear in the "Interactive Calculus 3.0 CD-ROM and "Internet Calculus 2.0 web site with enhanced opportunities for exploration and

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*visualization using
the program itself
and/or a Computer
Algebra*

*System. Think About
It conceptual
exercises require
students to use their
critical-thinking skills
and help them
develop an intuitive
understanding of the
underlying theory of*

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the calculus. Modeling Data multi-part questions ask students to find and interpret mathematical models to fit real-life data, often through the use of a graphing utility. Section Projects, extended

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applications that appear at the end of selected exercise sets. may be used for individual, collaborative, or peer-assisted assignments. Writing exercises throughout help develop students' reasoning skills and make them

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*comfortable with
discussing
mathematical
concepts. True or
False? Exercises,
included toward the
end of many
exercises sets, help
students understand
the logical structure
of calculus and
highlight concepts,
common errors, and*

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the correct statements of definitions and theorems. A wealth and variety of applications, many using current real data, clearly demonstrate the relevance of calculus. All real data in exercises and examples has

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been updated. Answers to all odd-numbered exercises are included in the back of the text. Technology is integrated thoughtfully (although not required) throughout the text, allowing for optimal flexibility in

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teaching and learning. When appropriate in examples, exercises, and applications, students are encouraged to use a graphing utility or computer algebra system as a tool for exploration, discovery, and

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problem-solving. To facilitate and clarify technology use, a graphing utility icon identifies all exercises that specifically instruct students to use a graphing utility or a computer algebra system. Explorations are optional boxed projects that help

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students discover selected concepts on their own before being exposed to them in the text. Motivating the Chapter sections opening each chapter present data-driven applications that explore the concepts to be

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solutions (many with side comments) that are presented graphically, analytically, and/or numerically to provide further insight into mathematical concepts.

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*approach to
childrearing:*

*“Parentology is
brilliant, jaw-
droppingly funny,
and full of
wisdom...bound to
change your
thinking about
parenting and its
conventions” (Amy
Chua, author of
Battle Hymn of the*

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Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural

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traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those

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experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence

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shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids).

Conley encourages parents to draw on the latest data to rear children, if only

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because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession.

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Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

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