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math concepts into
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course in
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general physics and
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bridges the gap
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statistical physics.

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The text contains a
large number of
worked examples to

illustrate the
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developed and to
show their relevance
to physics. The

book is designed
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undergraduate

physics majors, but
could also be used

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subjects, such as
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astronomy and
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of statistics and
understand its
essential role in
scientific research.

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contains an introduction to the mathematical concepts used in physics and engineering. The entire book is unique in that it draws upon applications from physics, rather than mathematical examples, to ensure

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insights into

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classical physics.
The book is also
distinctive in the
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to modelling, and to
oft-neglected topics
such as Green's
functions.

This textbook is a
comprehensive
introduction to the
key disciplines of
mathematics - linear

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algebra, calculus,
and geometry -
needed in the
undergraduate
physics curriculum.
Its leitmotiv is that
success in learning
these subjects
depends on a good
balance between
theory and practice.
Reflecting this
belief, mathematical

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foundations are explained in pedagogical depth, and computational methods are introduced from a physicist's perspective and in a timely manner. This original approach presents concepts and methods as inseparable entities,

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facilitating in-depth understanding and making even advanced mathematics tangible. The book guides the reader from high-school level to advanced subjects such as tensor algebra, complex functions, and differential

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geometry. It contains numerous worked examples, info sections providing context, biographical boxes, several detailed case studies, over 300 problems, and fully worked solutions for all odd-numbered problems. An online

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development lead to
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degradation? How does the participation of women in the labor force differ across countries? How do college scholarship rules affect savings? Students come to economics wanting answers to questions like these. While these questions span

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different disciplines within economics, the methods used to address them draw on a common set of mathematical tools and techniques. The second edition of Mathematical Methods for Economics continues the tradition of the first edition by

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successfully teaching these tools and techniques through presenting them in conjunction with interesting and engaging economic applications. In fact, each of the questions posed above is the subject of an application in Mathematical

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applications in the text provide students with an understanding of the use of mathematics in economics, an understanding that is difficult for students to grasp without numerous explicit examples. The

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applications also
motivate the study of
the material, develop
mathematical
comprehension and
hone economic intuit
ion. Mathematical
Methods for
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you with an
opportunity to offer
each economics
major a resource

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that will enhance his or her education by providing tools that will open doors to understanding.

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physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of

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practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the

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exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for

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unaided homework;
full solutions are
available to
instructors on a
password-protected
web site, www.cambridge.org/9780521679718.

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necessary for
advanced study in
physics and

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mathematical physics encountered in advanced courses in the physical sciences. Intuition and computational abilities are stressed. Original material on DE and multiple integrals has been expanded.

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Mathematical
Techniques
All students of
engineering, science,
and mathematics take
courses on
mathematical
techniques or
'methods', and large
numbers of these
students are insecure

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in their mathematical grounding. This book offers a course in mathematical methods for students in the first stages of a science or engineering degree. Its particular intention is to cover the range of topics typically required, while providing for students whose mathematical

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background is minimal. The topics covered are: *

Analytic geometry, vector algebra, vector fields (div and curl), differentiation, and integration. * Complex numbers, matrix operations, and linear systems of equations.

* Differential equations and first-order linear systems,

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functions of more than
one variable, double
integrals, and line
integrals. * Laplace
transforms and
Fourier series and
Fourier transforms. *
Probability and
statistics. The earlier
part of this list
consists largely of
what is thought pre-
university material.
However, many

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science students have not studied mathematics to this level, and among those that have the content is frequently only patchily understood. Mathematical Techniques begins at an elementary level but proceeds to give more advanced material with a

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By A. Feynman

minimum of
manipulative
complication. Most of
the concepts can be
explained using quite
simple examples, and
to aid understanding a
large number of fully
worked examples is
included. As far as is
possible chapter
topics are dealt with in
a self-contained way
so that a student only

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needing to master
certain techniques
can omit others
without trouble. The
widely illustrated text
also includes simple
numerical processes
which lead to
examples and
projects for
computation, and a
large number of
exercises (with
answers) is included

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to reinforce understanding. Focusing on the application of mathematics to chemical engineering, Applied Mathematical Methods for Chemical Engineers addresses the setup and verification of mathematical models using experimental or other independently

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derived data. The book provides an introduction to differential equations common to chemical engineering, followed by examples of first-order and linear second-order ordinary differential equations. Later chapters examine Sturm–Liouville problems, Fourier

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series, integrals,
linear partial
differential equations,
regular perturbation,
combination of
variables, and
numerical methods
emphasizing the
method of lines with
MATLAB®
programming
examples. Fully
revised and updated,
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Includes additional examples related to process control, Bessel Functions, and contemporary areas such as drug delivery
Introduces examples of variable coefficient Sturm–Liouville problems both in the regular and singular types
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methods alongside
the Runge–Kutta
order-four method
Inserts more depth on
specific applications
such as
nonhomogeneous
cases of separation of
variables Adds a
section on special
types of matrices
such as upper- and
lower-triangular
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justification for Fourier-
Bessel series in
preference to a
complicated proof
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examples related to
biomedical
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the use of the
predictor-corrector
method Expands the
problem sets of
numerous chapters

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Methods for Chemical
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Edition uses worked
examples to expose
several mathematical
methods that are
essential to solving
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engineering problems.
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and graduate courses
in chemistry, physics,

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mathematics and engineering, this text is also suitable as a reference for advanced students in the physical sciences. Detailed problems and worked examples are included.

This comprehensive, well organized and easy to read book presents concepts in a unified framework to

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establish a similarity in the methods of solutions and analysis of such diverse systems as algebraic equations, ordinary differential equations and partial differential equations. The distinguishing feature of the book is the clear focus on analytical methods of solving equations. The text

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explains how the methods meant to elucidate linear problems can be extended to analyse nonlinear problems. The book also discusses in detail modern concepts like bifurcation theory and chaos. To attract engineering students to applied mathematics, the

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author explains the concepts in a clear, concise and straightforward manner, with the help of examples and analysis. The significance of analytical methods and concepts for the engineer/scientist interested in numerical applications is clearly brought

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out. Intended as a textbook for the postgraduate students in engineering, the book could also be of great help to the research students.

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follow the*

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physics

*courses, this
book contains
many original,
lucid and
relevant
examples from
the physical
sciences,
problems at the
ends of*

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*chapters, and
boxes to
emphasize
important
concepts to
help guide
students
through the
material.
Due to the
rapid expansion
of the
frontiers of*

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*physics and
engineering,
the demand for
higher-level
mathematics is
increasing
yearly. This
book is
designed to
provide
accessible
knowledge of
higher-level*

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*mathematics
demanded in
contemporary
physics and
engineering.
Rigorous
mathematical
structures of
important
subjects in
these fields
are fully
covered, which*

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*will be helpful
for readers to
become
acquainted with
certain
abstract
mathematical
concepts. The
selected topics
are: - Real
analysis,
Complex
analysis,*

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*Functional
analysis,
Lebesgue
integration
theory, Fourier
analysis,
Laplace
analysis,
Wavelet
analysis,
Differential
equations, and
Tensor*

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analysis. This book is essentially self-contained, and assumes only standard undergraduate preparation such as elementary calculus and linear algebra. It is thus well

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*suited for
graduate
students in
physics and
engineering who
are interested
in theoretical
backgrounds of
their own
fields.*

*Further, it
will also be
useful for*

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*mathematics
students who
want to
understand how
certain
abstract
concepts in
mathematics are
applied in a
practical
situation. The
readers will
not only*

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*acquire basic
knowledge
toward higher-
level
mathematics,
but also imbibe
mathematical
skills
necessary for
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studies of
their own
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deterministic
and
probabilistic
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sciences
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*quantitative
techniques in
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research,
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provides an
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presentation of
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of important
mathematical*

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problems in the
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sciences. The
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the growing
connections
between
mathematics and
biology through
clear
explanations

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*and specific,
interesting
problems from
areas such as
population
dynamics,
foraging
theory, and
life history
theory. The
authors begin
with an
introduction*

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*and review of
mathematical
tools that are
employed in
subsequent
chapters,
including
biological
modeling,
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equations,
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variables, and
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statistics. The
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chapters
examine
standard
discrete and
continuous
models using
matrix algebra
as well as
difference and

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*differential
equations.
Finally, the
book outlines
probability,
statistics, and
stochastic
methods as well
as material on
bootstrapping
and stochastic
differential
equations,*

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*which is a
unique approach
that is not
offered in
other
literature on
the topic. In
order to
demonstrate the
application of
mathematical
methods to the
biological*

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sciences, the
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authors provide
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focused
examples from
the field of
theoretical
ecology, which
serve as an
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context for
study while
also
demonstrating

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skills that are
applicable to
many other
areas in the
life sciences.
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algorithms are
illustrated
using MATLAB®,
but can also be
replicated
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format,
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for mathematics
and biology
courses at the
upper-undergrad
uate and
graduate
levels. It also*

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serves as a
valuable
reference for
researchers and
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working in the
fields of
biology,
ecology, and
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elementary
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*modern methods
found in
sophisticated
mathematics to
discuss
portions of
"advanced
calculus" in
which the
subtlety of the
concepts and
methods makes
rigor difficult*

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to attain at an
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Maths Book is a
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textbook of**

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undergraduate
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*students of
chemistry. Such
students often
find themselves
unprepared and
ill-equipped to
deal with the
mathematical
content of their
chemistry*

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problem have so
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basic for
complete
undergraduate
courses and have
been unpopular
with students.***

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companion

suitable for all

levels of

***undergraduate
chemistry***

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most useful and

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are covered with
numerous
examples of
applications in
chemistry and
some in physics.
The subject is
developed in a
logical and
consistent way
with few***

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prior knowledge
of mathematics.***

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to become a
widely adopted
text and will be
highly
recommended for
all chemistry
courses.***

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teaches all the
mathematics for
an undergraduate
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descriptions of
all the topics and
many worked
examples, it
contains over 800
exercises. New
stand-alone
chapters give a
systematic
account of the

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***'special
functions' of
physical science,
cover an
extended range
of practical
applications of
complex
variables, and
give an
introduction to
quantum***

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solutions manual
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solutions to over
400 exercises in*

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***the main
textbook, the odd-
numbered
exercises, that
are provided with
hints and
answers. The
even-numbered
exercises have
no hints, answers
or worked
solutions and are***

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solutions are
available to
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learning tool and
guide to error
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Error correction
coding
techniques allow
the detection and
correction of
errors occurring
during the
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data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an important component of the modern

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presentation
suitable for a
wide variety of
audiences,
including
graduate
students in
electrical*

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engineering,
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computer

*science. The
pedagogy is
arranged so that
the mathematical
concepts are
presented
incrementally,
followed
immediately by*

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applications to coding. A large number of exercises expand and deepen students' understanding. A unique feature of the book is a set of programming laboratories, supplemented

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***with over 250
programs and
functions on an
associated Web
site, which
provides hands-
on experience
and a better
understanding of
the material.
These
laboratories lead***

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the
implementation
and evaluation of
Hamming codes,
CRC codes, BCH
and R-S codes,
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