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Beginning

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Mathematics

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Partial
Differential
Equations, 3rd
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l"BeginningParti
al Differential
Equations, 3rd
Edition/a
Featuring a
challenging, yet

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Mathematics

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Manual

accessible,
introduction to
partial differential
ial equations,
Beginning
Partial Differen
tial Equations
provides a solid
introduction to
partial differential
ial equations,
particularly
methods of
solution based o

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ncharacteristics
, separation of
variables, as
well as

Fourierseries,
integrals, and
transforms.

Thoroughly
updated with nov
elapplications,
such as Poe's
pendulum and
Kepler's problem
inastronomy,

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this third edition is updated to include the latest version of Maples, which is integrated throughout the text. New topical coverage includes novel applications, such as

Poe's pendulum

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Mathematics

and Kepler's
Logan Solutions

problem in
Manual
astronomy.

Applied

Mathematical

Methods covers

the material

vital for

research in

today's world

and can be

covered in a

regular semester

course. It is

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Mathematics

the

Logan Solutions

consolidation of

Manual

the efforts of

teaching the

compulsory first

semester post-

graduate applied

mathematics

course at the

Department of

Mechanical

Engineering at

IIT Kanpur in

two successive

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Mathematics

years.

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Manual

By the time

chemistry

students are

ready to study

physical

chemistry,

they've

completed

mathematics

courses through

calculus. But a

strong

background in

File Type PDF

Applied

Mathematics

mathematics

Logan Solutions

doesn't

Manuscript

necessarily

equate to

knowledge of how

to apply that

mathematics to

solving

physicochemical

problems. In

addition, in-

depth

understanding of

modern concepts

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Mathematics

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Manual

in physical
chemistry
requires
knowledge of
mathematical
concepts and
techniques
beyond
introductory
calculus, such
as differential
equations,
Fourier series,
and Fourier

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transforms. This results in many physical chemistry instructors spending valuable lecture time teaching mathematics rather than chemistry.

Barrante presents both basic and

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advanced
mathematical
techniques in
the context of
how they apply
to physical
chemistry. Many
problems at the
end of each
chapter test
students'
mathematical
knowledge.

Designed and

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priced to
accompany
traditional core
textbooks in
physical
chemistry,
Applied
Mathematics for
Physical
Chemistry
provides
students with
the tools
essential for

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answering
questions in
thermodynamics,
atomic/molecular
structure,
spectroscopy,
and statistical
mechanics.

KEY BENEFIT

Emphasizing
physical
interpretations
of mathematical
solutions, this

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Mathematics

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book introduces applied mathematics and presents partial differential equations. KEY TOPICS Leading readers from simple exercises through increasingly powerful mathematical techniques, this

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Mathematics

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book discusses
hear flow and
vibrating
strings and
membranes, for a
better
understand of
the relationship
between
mathematics and
physical
problems. It
also emphasizes
problem solving

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and provides a thorough approach to solutions. The third edition of , Elementary Applied Partial Differential Equations; With Fourier Series and Boundary Value Problems has been revised to include a new

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chapter covering
dispersive
waves. It also
includes new
sections
covering fluid
flow past a
circular
cylinder;
reflection and
refraction of
light and sound
waves; the
finite element

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method; partial
differential
equations with
spherical
geometry;
eigenvalue
problems with a
continuous and
discrete
spectrum; and
first-order
nonlinear
partial
differential

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equations. An
essential
reference for
any technical or
mathematics
professional.
Solving Applied
Mathematical
Problems with
MATLAB
Principles of
Computerized
Tomographic
Imaging

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Methods in

Biology

Scientific

Computing with

MATLAB

Linear Algebra

A FIRST COURSE IN

THE FINITE ELEMENT

METHOD provides a

simple, basic approach

to the course material

that can be understood

by both undergraduate

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and graduate students without the usual prerequisites (i.e. structural analysis). The book is written primarily as a basic learning tool for the undergraduate student in civil and mechanical engineering whose main interest is in stress analysis and heat transfer. The text is geared toward those

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*Logan Solutions
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*who want to apply the
finite element method as
a tool to solve practical
physical problems.*

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the product text may not
be available in the
ebook version.*

*This book is intended as
an alternative to the
standard differential*

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equations text, which typically includes a large collection of methods and applications, packaged with state-of-the-art color graphics, student solution manuals, the latest fonts, marginal notes, and web-based supplements. These texts adds up to several hundred pages of text and can be very

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expensive for students to buy. Many students do not have the time or desire to read

voluminous texts and explore internet

supplements. Here,

however, the author

writes concisely, to the

point, and in plain

language. Many

examples and exercises

are included. In

addition, this text also

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Mathematics

*encourages students to
use a computer algebra*

system to solve

problems numerically,

and as such, templates

of MATLAB programs

that solve differential

equations are given in

an appendix, as well as

basic Maple and

Mathematica

commands.

Partial Differential

Equations presents a

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Mathematics

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Manual

*balanced and
comprehensive
introduction to the
concepts and techniques
required to solve
problems containing
unknown functions of
multiple variables.*

*While focusing on the
three most classical
partial differential
equations (PDEs)—the
wave, heat, and Laplace
equations—this detailed*

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Mathematics

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text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and many more.

Rigorous pedagogical

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Mathematics

*tools aid in student
comprehension;*

*advanced topics are
introduced frequently,
with minimal technical
jargon, and a wealth of
exercises reinforce vital
skills and invite
additional self-study.*

*Topics are presented in
a logical progression,
with major concepts
such as wave*

propagation, heat and

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Mathematics

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Manual

*diffusion, electrostatics,
and quantum mechanics
placed in contexts
familiar to students of
various fields in science
and engineering. By
understanding the
properties and
applications of PDEs,
students will be
equipped to better
analyze and interpret
central processes of the
natural world.*

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Mathematics

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*A one-of-a-kind guide
to using deterministic
and probabilistic
methods for solving
problems in the
biological sciences
Highlighting the
growing relevance of
quantitative techniques
in scientific research,
Mathematical Methods
in Biology provides an
accessible presentation
of the broad range of*

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important mathematical methods for solving problems in the biological sciences. The book reveals the growing connections between mathematics and biology through clear explanations and specific, interesting problems from areas such as population dynamics, foraging theory, and life history

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theory. The authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters, including biological modeling, calculus, differential equations, dimensionless variables, and descriptive statistics. The following chapters examine standard discrete and

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continuous models using matrix algebra as well as difference and differential equations.

Finally, the book outlines probability, statistics, and stochastic methods as well as material on

bootstrapping and stochastic differential equations, which is a unique approach that is not offered in other

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literature on the topic. In order to demonstrate the application of mathematical methods to the biological sciences, the authors provide focused examples from the field of theoretical ecology, which serve as an accessible context for study while also demonstrating mathematical skills that

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are applicable to many other areas in the life sciences. The book's algorithms are illustrated using MATLAB®, but can also be replicated using other software packages, including R, Mathematica®, and Maple; however, the text does not require any single computer algebra package. Each

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chapter contains numerous exercises and problems that range in difficulty, from the basic to more challenging, to assist readers with building their problem-solving skills. Selected solutions are included at the back of the book, and a related Web site features supplemental material for further study.

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Extensively class-tested to ensure an easy-to-follow format, Mathematical Methods in Biology is an excellent book for mathematics and biology courses at the upper-undergraduate and graduate levels. It also serves as a valuable reference for researchers and professionals working in

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*the fields of biology,
ecology, and
biomathematics.*

MATLAB Guide to

Finite Elements

An Introduction

An Introduction to

Numerical Methods and

Analysis

Complex Analysis with

Applications

Differential Equations

and Boundary Value

Problems: Computing

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Mathematics

*and Modeling, Global
Edition*

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Manual
*Praise for the First
Edition " . . .*

*outstandingly
appealing with
regard to its style,
contents,
considerations of
requirements of
practice, choice of
examples, and*

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Mathematics

exercises."
—Zentrablatt Math
Manual

*"... carefully
structured with
many detailed
worked examples .*

.." —The
Mathematical
Gazette *"... an up-
to-date and user-
friendly account . .*
." —Mathematika

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Mathematics

An Introduction to

Numerical

Methods and

Analysis

addresses the

mathematics

underlying

approximation and

scientific

computing and

successfully

explains where

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approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and

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Mathematics

*usefulness for the
numerical methods
novice, the book*

*begins with basic,
elementary*

material and

*gradually builds up
to more advanced*

*topics. A selection
of concepts*

*required for the
study of*

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Mathematics

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Manual

*computational
mathematics is
introduced, and
simple
approximations
using Taylor's
Theorem are also
treated in some
depth. The text
includes exercises
that run the gamut
from simple hand*

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Mathematics

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*computations, to
challenging
derivations and
minor proofs, to
programming
exercises. A
greater emphasis
on applied
exercises as well
as the cause and
effect associated
with numerical*

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mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate

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*mathematics and
engineering*

courses who are

interested in

gaining an

understanding of

numerical methods

and numerical

analysis.

Linear algebra is

one of the most

important subjects

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Mathematics

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*in the study of
science and
engineering
because of its
widespread
applications in
social or natural
science, computer
science, physics,
or economics. As
one of the most
useful courses in*

File Type PDF

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Mathematics

Logan Solutions
Manual

*undergraduate
mathematics, it
has provided
essential tools for
industrial
scientists. The
basic concepts of
linear algebra are
vector spaces,
linear
transformations,
matrices and*

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Mathematics

determinants, and they serve as an abstract language

for stating ideas

and solving

problems. This

book is based on

the lectures

delivered several

years in a

sophomore level

linear algebra

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Applied

Mathematics

*course designed
for science and
engineering*

*students. The
primary purpose of
this book is to give
a careful*

*presentation of the
basic concepts of
linear algebra as a
coherent part of
mathematics, and*

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Mathematics

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*to illustrate its
power and
usefulness through
applications to
other disciplines.
We have tried to
emphasize the
computational
skills along with
the mathematical
abstractions, which
have also an*

File Type PDF

Applied

Mathematics

*integrity and
beauty of their
own. The book*

*includes a variety
of interesting*

*applications with
many examples*

*not only to help
students*

understand new

concepts but also

to practice wide

File Type PDF

Applied

Mathematics

*applications of the
subject to such
areas as*

differential

equations,

statistics,

geometry, and

physics. Some of

those applications

may not be central

to the

mathematical

File Type PDF

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Mathematics

*development and
may be omitted or
selected in a*

*syllabus at the
discretion of the
instructor.*

*A FIRST COURSE
IN DIFFERENTIAL
EQUATIONS
WITH MODELING
APPLICATIONS,
10th Edition strikes*

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Mathematics

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*a balance between
the analytical,
qualitative, and
quantitative
approaches to the
study of differential
equations. This
proven and
accessible text
speaks to
beginning
engineering and*

File Type PDF

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Mathematics

*math students
through a wealth of
pedagogical aids,*

*including an
abundance of
examples,*

*explanations,
Remarks boxes,
definitions, and
group projects.*

*Written in a
straightforward,*

File Type PDF

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readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations.

*Important Notice:
Media content
referenced within
the product*

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description or the product text may not be available in the ebook version.

This textbook is intended for a one semester course in complex analysis for upper level undergraduates in mathematics.

Applications,

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primary motivations for this text, are presented hand-in-hand with theory enabling this text to serve well in courses for students in engineering or applied sciences. The overall aim in designing this text

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Mathematics

is to accommodate
students of
different

mathematical
backgrounds and
to achieve a
balance between
presentations of
rigorous
mathematical
proofs and
applications. The

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text is adapted to enable maximum flexibility to instructors and to students who may also choose to progress through the material outside of coursework.

Detailed examples may be covered in

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one course, giving the instructor the option to choose those that are best suited for discussion.

Examples

showcase a variety of problems with completely worked out solutions, assisting students

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*in working through
the exercises. The
numerous*

*exercises vary in
difficulty from
simple applications
of formulas to more
advanced project-
type problems.*

*Detailed hints
accompany the
more challenging*

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problems. Multi-part exercises may be assigned to individual students, to groups as projects, or serve as further illustrations for the instructor. Widely used graphics clarify both concrete and

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Mathematics

*abstract concepts,
helping students
visualize the proofs
of many results.*

*Freely accessible
solutions to every-
other-odd exercise
are posted to the
book's Springer
website. Additional
solutions for
instructors' use*

File Type PDF

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Mathematics

*may be obtained
by contacting the
authors directly.*

*Introduction to
Partial Differential
Equations*

*A Computational
Approach*

*Solutions Manual
to Accompany
Beginning Partial
Differential*

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Equations

Applied Partial

Differential

Equations

Books in Print

Supplement

Praise for the Third

Edition “Future

mathematicians,

scientists, and

engineers should find

the book to be an

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Mathematics

**excellent
introductory text for
coursework or self-**

study as well as

worth its shelf space

for reference.”

—MAA Reviews

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Mathematics, Fourth

Edition is a

thoroughly updated

and revised edition

on the applications of

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Manual

**modeling and
analyzing natural,
social, and
technological
processes. The book
covers a wide range
of key topics in
mathematical
methods and
modeling and
highlights the
connections between
mathematics and the**

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Mathematics

**applied and natural
sciences. The Fourth
Edition covers both**

standard and

modern topics,

**including scaling and
dimensional analysis;**

**regular and singular
perturbation;**

calculus of

**variations; Green's
functions and**

integral equations;

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nonlinear wave propagation; and stability and bifurcation. The book provides extended coverage of mathematical biology, including biochemical kinetics, epidemiology, viral dynamics, and parasitic disease. In addition, the new

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edition features:

Expanded coverage

on orthogonality,

boundary value

problems, and

distributions, all of

which are motivated

by solvability and

eigenvalue problems

in elementary linear

algebra Additional

MATLAB®

applications for

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**computer algebra
system calculations**

Over 300 exercises

and 100 illustrations

that demonstrate

important concepts

New examples of

dimensional analysis

and scaling along

with new tables of

dimensions and units

for easy reference

Review material,

Page 75/190

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**theory, and examples
of ordinary**

differential equations

New material on

applications to

quantum mechanics,

chemical kinetics,

and modeling

diseases and viruses

Written at an

accessible level for

readers in a wide

range of scientific

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Mathematics

**fields, Applied
Mathematics, Fourth**

**Edition is an ideal
text for introducing
modern and
advanced techniques
of applied
mathematics to
upper-**

**undergraduate and
graduate-level
students in
mathematics,**

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**science, and
engineering. The
book is also a
valuable reference
for engineers and
scientists in
government and
industry.**

**Practice partial
differential equations
with this student
solutions manual
Corresponding**

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chapter-by-chapter
with Walter

Strauss's Partial

Differential

Equations, this

student solutions

manual consists of

the answer key to

each of the practice

problems in the

instructional text.

Students will follow

along through each

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**of the chapters,
providing practice
for areas of study
including waves and
diffusions, reflections
and sources,
boundary problems,
Fourier series,
harmonic functions,
and more. Coupled
with Strauss's text,
this solutions manual
provides a complete**

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**resource for learning
and practicing
partial differential
equations.**

**The third edition of
this well known text
continues to provide
a solid foundation in
mathematical
analysis for
undergraduate and
first-year graduate
students. The text**

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begins with a discussion of the real number system as a complete ordered field. (Dedekind's construction is now treated in an appendix to Chapter I.) The topological background needed for the development of convergence, continuity,

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**differentiation and
integration is
provided in Chapter
2. There is a new
section on the
gamma function, and
many new and
interesting exercises
are included. This
text is part of the
Walter Rudin
Student Series in
Advanced**

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Mathematics.

This textbook is for the standard, one-semester, junior-senior course that often goes by the title "Elementary Partial Differential Equations" or "Boundary Value Problems". The audience consists of students in

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Mathematics

**mathematics,
engineering, and the
sciences. The topics**

**include derivations
of some of the**

**standard models of
mathematical**

**physics and methods
for solving those**

equations on

unbounded and

bounded domains,

and applications of

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PDE's to biology.

The text differs from

other texts in its

brevity; yet it

provides coverage of

the main topics

usually studied in the

standard course, as

well as an

introduction to using

computer algebra

packages to solve

and understand

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partial differential equations. For the 3rd edition the section on numerical methods has been considerably expanded to reflect their central role in PDE's. A treatment of the finite element method has been included and the code for numerical

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**calculations is now
written for
MATLAB.**

**Nonetheless the
brevity of the text
has been maintained.
To further aid the
reader in mastering
the material and
using the book, the
clarity of the
exercises has been
improved, more**

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Mathematics

**routine exercises
have been included,
and the entire text**

has been visually

reformatted to

improve readability.

Elementary Applied

Partial Differential

Equations

Applied

Mathematics for

Business, Economics,

and the Social

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Mathematics
Sciences
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Searching and
Seizing Computers
and Obtaining
Electronic Evidence
in Criminal
Investigations
Third Edition
Applied
Mathematical
Methods:
This textbook

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**presents a
variety of
applied
mathematics
topics in science
and engineering
with an
emphasis on
problem solving
techniques
using MATLAB®.
The authors**

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Applied

Mathematics

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Manual

**provide a
general
overview of the
MATLAB
language and its
graphics
abilities before
delving into
problem solving,
making the
book useful for
readers without**

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**prior MATLAB
experience.**

**They explain
how to generate
code suitable
for various
applications so
that readers can
apply the
techniques to
problems not
covered in the**

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Mathematics

**book. Examples,
figures, and**

MATLAB scripts

enable readers

with basic

mathematics

knowledge to

solve various

applied math

problems in

their fields

while avoiding

File Type PDF

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Mathematics

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Manual

**unnecessary
technical
details.**

**This text is
written for the
standard, one-
semester,
undergraduate
course in
elementary
partial
differential**

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Mathematics

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Manual

**equations. The
topics include
derivations of
some of the
standard
equations of
mathematical
physics
(including the
heat equation,
the wave
equation, and**

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Mathematics

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Manual

**Laplace's
equation) and
methods for
solving those
equations on
bounded and
unbounded
domains.**

**Methods include
eigenfunction
expansions, or
separation of**

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Mathematics

**variables, and
methods based
on Fourier and**

Laplace

transforms.

Organized to

follow the

textbook on a c

hapter-by-

chapter basis,

providing

questions to

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**help the student
review the
material**

**presented in the
chapter. This
supplement is a
consumable
resource,
designed with
perforated
pages so that a
given chapter**

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**can be removed
and turned in
for grading or
checking.**

**This book
explores
numerical
implementation
of Finite
Element
Analysis using
MATLAB.**

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Manual

**Stressing
interactive use
of MATLAB, it
provides
examples and
exercises from
mechanical, civil
and aerospace
engineering as
well as
materials
science. The**

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text includes a short MATLAB tutorial. An extensive solutions manual offers detailed solutions to all problems in the book for classroom use. The second

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**edition includes
a new brick**

(solid) element

with eight

nodes and a one-

dimensional

fluid flow

element. Also

added is a

review of

applications of

finite elements

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**in fluid flow,
heat transfer,
structural
dynamics and el
ectro-
magnetics. The
accompanying
CD-ROM
presents more
than fifty
MATLAB
functions.**

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**Student
Solutions
Manual to
accompany
Partial
Differential
Equations: An
Introduction, 2e
Applied
Mathematics
An Introduction
to Nonlinear**

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**Partial
Differential
Equations
Applied
Mathematics for
Physical
Chemistry
A First Course in
Differential
Equations with
Modeling
Applications**

Page 106/190

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Normal 0 false false
false This book
emphasizes the
physical
interpretation of
mathematical
solutions and
introduces applied
mathematics while
presenting
differential
equations. Coverage

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includes Fourier series, orthogonal functions, boundary value problems, Green's functions, and transform methods. This text is ideal for readers interested in science, engineering, and applied mathematics. Combining both the

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classical theory and
numerical

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techniques for partial
differential

equations, this

thoroughly modern

approach shows the

significance of

computations in

PDEs and illustrates

the strong interaction

between

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Mathematics

mathematical theory
and the development
of numerical

methods. Great care
has been taken

throughout the book
to seek a sound

balance between
these techniques.

The authors present
the material at an

easy pace and

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exercises ranging from the straightforward to the challenging have been included. In addition there are some "projects" suggested, either to refresh the students memory of results needed in this course, or to extend

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the theories developed in the text. Suitable for undergraduate and graduate students in mathematics and engineering.

For introductory courses in

Differential

Equations. This best-selling text by these

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well-known authors
blends the traditional
algebra problem
solving skills with
the conceptual
development and
geometric
visualisation of a
modern differential
equations course that
is essential to
science and

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engineering students.

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It reflects the new
qualitative approach

that is altering the

learning of

elementary

differential

equations, including

the wide availability

of scientific

computing

environments like

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Mathematics

Maple,
Logan Solutions
Mathematica, and
Manual

MATLAB. Its focus
balances the
traditional manual
methods with the
new computer-based
methods that
illuminate
qualitative
phenomena and
make accessible a

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Mathematics

wider range of more realistic applications.

Seldom-used topics

have been trimmed

and new topics

added: it starts and

ends with

discussions of

mathematical

modeling of real-

world phenomena,

evident in figures,

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examples, problems,
Logan Solutions
and applications

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equations are written
to be interesting to
the teacher rather
than the student.

Introduction to

Differential

Equations with

Dynamical Systems

is directed toward

students. This

concise and up-to-

date textbook

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addresses the challenges that undergraduate mathematics, engineering, and science students experience during a first course on differential equations. And, while covering all the standard parts of

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Mathematics

the subject, the book
emphasizes linear
constant coefficient

equations and

applications,

including the topics

essential to

engineering students.

Stephen Campbell

and Richard

Haberman--using

carefully worded

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derivations,
elementary
explanations, and
examples, exercises,
and figures rather
than theorems and
proofs--have written
a book that makes
learning and
teaching differential
equations easier and
more relevant. The

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book also presents
elementary

dynamical systems

in a unique and

flexible way that is

suitable for all

courses, regardless

of length.

How Big Data

Increases Inequality

and Threatens

Democracy

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A Concise
Introduction to
Linear Algebra

A First Course in
Differential
Equations

Weapons of Math
Destruction

A First Course in the
Finite Element
Method, SI Version

Building on the

Page 125/190

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***author's previous
edition on the
subject***

***(Introduction to
Linear Algebra,
Jones & Bartlett,
1996), this book
offers a
refreshingly
concise text
suitable for a
standard course***

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***in linear algebra,
presenting a
carefully selected
array of essential
topics that can be
thoroughly
covered in a
single semester.
Although the
exposition
generally falls in
line with the***

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***material
recommended by
the Linear***

Algebra

Curriculum Study

Group, it notably

deviates in

providing an

early emphasis

on the geometric

foundations of

linear algebra.

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This gives students a more intuitive understanding of the subject and enables an easier grasp of more abstract concepts covered later in the course. The focus throughout

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is rooted in the mathematical fundamentals, but the text also investigates a number of interesting applications, including a section on computer graphics, a

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***chapter on
numerical
methods, and
many exercises
and examples
using MATLAB.
Meanwhile, many
visuals and
problems (a
complete
solutions manual
is available to***

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instructors) are included to enhance and reinforce understanding throughout the book. Brief yet precise and rigorous, this work is an ideal choice for a one-semester course

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***in linear algebra
targeted primarily
at math or***

***physics majors. It
is a valuable tool
for any professor
who teaches the
subject.***

***Suitable for self
study Use real
examples and
real data sets that***

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***will be familiar to
the audience***

***Introduction to
the bootstrap is
included – this is
a modern method
missing in many
other books***

***A
comprehensive,
tutorial-style
introduction to***

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***the algorithms
necessary for
tomographic
imaging.***

***The book retains
its strong
conceptual
approach, clearly
examining the
mathematical
underpinnings of
FEM, and***

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***providing a
general approach
of engineering
application
areas. Known for
its detailed,
carefully selected
example
problems and
extensive
selection of
homework***

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problems, the author has comprehensively covered a wide range of engineering areas making the book appropriate for all engineering majors, and underscores the

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*wide range of use
FEM has in the
professional
world*

*Introduction to
the Foundations
of Applied
Mathematics
With Fourier
Series and
Boundary Value
Problems*

Page 138/190

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***Methods of
Applied
Mathematics
An Interactive
Approach
Applied
Differential
Equations***

FOAM. This acronym has been used for over 75 years.

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years at
Rensselaer to
designate an
upper-division
course
entitled,
Foundations of
Applied Ma-
ematics. This
course was
started by
George

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Handelman in
1956, when he
came to

Rensselaer

from the

Carnegie

Institute of

Technology.

His objective

was to closely

integrate

mathematical

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and physical reasoning, and in the process

enable

students to

obtain a

qualitative

understanding

of the world

we live in.

FOAM was soon

taken over by

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a young
faculty
member, Lee

Segel. About

this time a

similar

course,

Introduction

to Applied

Mathematics,

was introduced

by Chia-Ch'iao

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Lin at the
Massachusetts
Institute of
Technology.
Together Lin
and Segel,
with help from
Handelman,
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landmark
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mathematics,
Mathematics
Applied to -
terministic
Problems in
the Natural
Sciences. This
was originally
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1974, and
republished in

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1988 by the
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Society for
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Industrial and

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Mathematics,

in their

Classics

Series. This

textbook comes

from the

author

teaching FOAM

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over the last few years. In this sense, it is an updated version of the Lin and Segel textbook.

An
Introduction
to Nonlinear
Partial
Differential

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Equations is a textbook on nonlinear partial differential equations. It is technique oriented with an emphasis on applications and is designed to

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build a
foundation for
studying
advanced
treatises in
the field. The
Second Edition
features an
updated
bibliography
as well as an
increase in

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the number of
exercises. All
software
references
have been
updated with
the latest
version of
MATLAB®, the
corresponding
graphics have
also been

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MATLAB®. An

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increased

focus on hydro
geology...

This is the
second edition
of the now
definitive
text on
partial
differential

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equations

(PDE). It

offers a

comprehensive

survey of

modern

techniques in

the

theoretical

study of PDE

with

particular

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emphasis on
nonlinear
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wide scope and
clear
exposition
make it a
great text for
a graduate
course in PDE.
For this
edition, the

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author has
made numerous
changes,
including a
new chapter on
nonlinear wave
equations,
more than 80
new exercises,
several new
sections, a
significantly

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PDE and topics
courses. It
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wonderful
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insight and
technical
detail. ...

Evans' book is
evidence of
his mastering
of the field
and the
clarity of
presentation.

--Luis

Caffarelli,

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Texas It is
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fun to teach

from Evans'

book. It

explains many

of the

essential

ideas and

techniques of

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Every graduate

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for students
just learning
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as well as for
experts who
wish to
broaden their
knowledge ...

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reference for
many aspects
of the field.

--Rafe Mazzeo,
Stanford
University

Offering a
number of
mathematical
facts and
techniques not

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commonly
treated in
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calculus, this
book explores
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algebraic
equations,
quadratic and
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calculus of
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more.

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tedious and
complex technical
details of
mathematics. This
edition retains the
structure of its
predecessor while
expanding and
updating the
content of each
chapter. The book
bridges the gap***

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and solutions
through well-
grouped topics and
clear MATLAB
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and reproducible
MATLAB-generated
plots. Students can
effortlessly
experiment with
the scripts for a
deep, hands-on
exploration. Each***

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**chapter also
includes a set of**

problems to

strengthen

**understanding of
the material.**

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National Book**

Award New York

Times Bestseller A

former Wall Street

quant sounds an

alarm on the

mathematical

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models that
pervade modern
life -- and threaten

to rip apart our

social fabric We

live in the age of

the algorithm.

Increasingly, the

decisions that

affect our

lives--where we go

to school, whether

we get a car loan,

how much we pay

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for health
insurance--are
being made not by

humans, but by

mathematical

models. In theory,

this should lead to

greater fairness:

Everyone is judged

according to the

same rules, and

bias is eliminated.

But as Cathy O'Neil

reveals in this

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urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't

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get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and

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***punishing the
downtrodden,
creating a "toxic
cocktail for
democracy."***

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dark side of Big
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arc of a person's
life, O'Neil exposes
the black box
models that shape
our future, both as
individuals and as***

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**a society. These
"weapons of math
destruction" score
teachers and
students, sort r
sum s, grant (or
deny) loans,
evaluate workers,
target voters, set
parole, and
monitor our health.
O'Neil calls on
modelers to take
more responsibility**

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for their algorithms and on policy makers to regulate their use. But in the end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and

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Technology) --

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Best Books of 2016**

**-- WBUR's "On
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of 2016: Staff Picks**

**-- Boston Globe,
Best Books of
2016, Non-Fiction**

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Wiley & Sons**

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covering the
fundamentals of
partial differential
equations, geared
towards advanced
undergraduates
and beginning
graduate students
in mathematics,
science,
engineering, and
elsewhere. The**

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straightforward
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techniques and
results, details on
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developments and
proofs, challenging
projects both
computational and**

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supplementary
material that
motivates the
student to delve
further into the
subject. No
previous
experience with
the subject of
partial differential
equations or
Fourier theory is
assumed, the main**

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being
undergraduate
calculus, both one-
and multi-variable,
ordinary
differential
equations, and
basic linear
algebra. While the
classical topics of
separation of
variables, Fourier
analysis, boundary***

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Green's functions,**

and special

**functions continue
to form the core of
an introductory
course, the
inclusion of
nonlinear
equations, shock
wave dynamics,
symmetry and
similarity, the
Maximum**

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Principle, financial models, dispersion and solitons, Huygens'.

Principle, quantum mechanical systems, and more make this text well attuned to recent developments and trends in this active field of contemporary research.

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Numerical approximation schemes are an important component of any introductory course, and the text covers the two most basic approaches: finite differences and finite elements. Peter J. Olver is professor of

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**mathematics at
the University of
Minnesota. His
wide-ranging
research interests
are centered on
the development
of symmetry-based
methods for
differential
equations and
their manifold
applications. He is
the author of over**

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scientific research
journals as well as
4 other books,
including the
definitive Springer
graduate text,
Applications of Lie
Groups to
Differential
Equations, and
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undergraduate**

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Analysis***