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Since the last century, the postulational method and an abstract point of view have

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played a vital role in the development of modern mathematics. The experience gained from the earlier concrete studies of analysis point to the importance of

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passage to the limit. The basis of this operation is the notion of distance between any two points of the line or the complex plane. The algebraic properties of underlying sets

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often play no
role in the
development of
analysis; this
situation
naturally leads
to the study of
metric spaces.
The abstraction
not only
simplifies and
elucidates
mathematical

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ideas that recur in different guises, but also helps economize the intellectual effort involved in learning them. However, such an abstract approach is

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likely to overlook the special features of particular mathematical developments, especially those not taken into account while forming the larger picture. Hence,

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the study of particular mathematical developments is hard to overemphasize. The language in which a large body of ideas and results of functional analysis are expressed is

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that of metric spaces. The books on functional analysis seem to go over the preliminaries of this topic far too quickly. The present authors attempt to provide a

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leisurely
approach to the
theory of
metric spaces.
In order to
ensure that the
ideas take root
gradually but
firmly, a large
number of
examples and
counterexamples
follow each

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definition.

Also included
are several
worked examples
and exercises.
Applications of
the theory are
spread out over
the entire
book.

This is the
eBook of the
printed book

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and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This is the best seller in this market. It provides a

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comprehensive
introduction to
complex
variable theory
and its
applications to
current
engineering
problems. It is
designed to
make the
fundamentals of
the subject

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more easily
accessible to
students who
have little
inclination to
wade through
the rigors of
the axiomatic
approach.

Modeled after
standard
calculus
books—both in

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level of
exposition and
layout—it
incorporates
physical
applications
throughout the
presentation,
so that the
mathematical
methodology
appears less
sterile to

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engineering
students.

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learning tools,
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repreneurship
Management

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addresses the challenges, issues, and rewards real-life entrepreneurs encounter when starting and growing a venture. Using its innovative "Roadmap" approach, this

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practical guide
enables
students and
aspiring
entrepreneurs
to design,
execute, and
maintain their
business
plan—covering
every essential
step of the
entrepreneurial

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process, from turning an idea into a business model to securing funding and managing resources. The authors draw from their experience launching new ventures to

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provide a
unique hands-on
approach to
developing the
skills required
to start and
build a company
in the modern
business
environment.
Discussions
focus on the
real-life

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challenges
facing startup
founders:
important
issues such as
how to drive
continuous
innovation and
how to create a
company culture
that maximizes
success.

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illustrative
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startup that

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traces the
history of his
company from
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eventual sale.

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and detailed
yet concise
text provide
you with an
overview of
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neurology and
its
intersection
with internal
medicine,
neurosurgery,
ophthalmology,
psychiatry, and
orthopedics.

Financial
Management for
Public, Health,
and Not-for-

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profit

Organizations

Fundamentals of

Complex

Analysis

Economists'

Mathematical

Manual

CFIN

Education is an
admirable thing,
but it is well to

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remember from
time to time that
nothing worth
knowing can be
taught. Oscar
Wilde, "The Critic
as Artist," 1890.
Analysis is a
profound subject;
it is neither easy
to understand nor
summarize.

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However, Real Analysis can be discovered by solving problems. This book aims to give independent students the opportunity to discover Real Analysis by themselves through problem

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solving. The depth and complexity of the theory of Analysis can be appreciated by taking a glimpse at its developmental history. Although Analysis was conceived in the 17th century during the

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Scientific

Revolution, it has taken nearly two hundred years to establish its theoretical basis. Kepler, Galileo, Descartes, Fermat, Newton and Leibniz were among those who contributed to its

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genesis. Deep conceptual changes in Analysis were brought about in the 19th century by Cauchy and Weierstrass. Furthermore, modern concepts such as open and closed sets were

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introduced in the
1900s. Today
nearly every
undergraduate
mathematics
program requires
at least one
semester of Real
Analysis. Often,
students consider
this course to be
the most

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challenging or
even intimidating
of all their
mathematics
major
requirements. The
primary goal of
this book is to
alleviate those
concerns by
systematically
solving the

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problems related to the core concepts of most analysis courses. In doing so, we hope that learning analysis becomes less taxing and thereby more satisfying. This volume presents

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mathematical
formulas and
theorems
commonly used in
economics. It
offers the first
grouping of this
material for a
specifically
economist
audience, and it
includes formulas

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like Roy's identity
and Leibniz's rule.

The second
volume of three
providing a full
and detailed
account of
undergraduate
mathematical
analysis.

Advanced
Calculus is

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intended as a text
for courses that
furnish the
backbone of the
student's
undergraduate
education in
mathematical
analysis. The goal
is to rigorously
present the
fundamental

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concepts within
the context of
illuminating
examples and
stimulating
exercises. This
book is self-
contained and
starts with the
creation of basic
tools using the
completeness

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axiom. The
continuity,
differentiability,
integrability, and
power series
representation
properties of
functions of a
single variable are
established. The
next few chapters
describe the

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topological and
metric properties
of Euclidean
space. These are
the basis of a
rigorous
treatment of
differential
calculus
(including the
Implicit Function
Theorem and

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Lagrange
(Multipliers) for
mappings
between
Euclidean spaces
and integration
for functions of
several real
variables. Special
attention has
been paid to the
motivation for

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proofs. Selected topics, such as the Picard Existence Theorem for differential equations, have been included in such a way that selections may be made while preserving a fluid presentation of

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material.

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with numerous
exercises,

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Calculus is a
perfect book for
undergraduate
students of
analysis.

A Modern

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Approach to
Classical
Theorems of
Advanced
Calculus
Lebesgue
Integration on
Euclidean Space
Vibrations and
Waves
Frames for
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A text for a first graduate course in real analysis for students in pure and applied mathematics, statistics, education, engineering, and economics.

Originally

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deterministic
and stochastic
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methods and
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stochastic
investments
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universal life
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option pricing
and the Black-
Scholes formula

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will be
introduced.

This book uses
elementary
versions of
modern methods
found in
sophisticated
mathematics to
discuss
portions of
"advanced
calculus" in

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which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

Mathematical
Analysis
Measure theory
and Integration
Patterns of Ent

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entrepreneurship
Management

Real Analysis

Real Analysis is the third volume in the Princeton Lectures in Analysis, a series of four textbooks that aim to present, in an integrated manner, the core areas of analysis.

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Here the focus is on the development of measure and integration theory, differentiation and integration, Hilbert spaces, and Hausdorff measure and fractals. This book reflects the objective of the series as a whole: to

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make plain the organic unity that exists between the various parts of the subject, and to illustrate the wide applicability of ideas of analysis to other fields of mathematics and science. After setting forth the

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basic facts of
measure theory,
Lebesgue
integration, and
differentiation on
Euclidian spaces,
the authors move to
the elements of
Hilbert space, via
the L^2 theory. They
next present basic
illustrations of these

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concepts from
Fourier analysis,
partial differential
equations, and
complex analysis.
The final part of the
book introduces the
reader to the
fascinating subject
of fractional-
dimensional sets,
including Hausdorff

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measure, self-replicating sets, space-filling curves, and Besicovitch sets. Each chapter has a series of exercises, from the relatively easy to the more complex, that are tied directly to the text. A substantial number

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of hints encourage the reader to take on even the more challenging exercises. As with the other volumes in the series, Real Analysis is accessible to students interested in such diverse disciplines as

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mathematics,
physics,
engineering, and
finance, at both the
undergraduate and
graduate levels.

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first two volumes in
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Lectures in
Analysis:
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approaches
integration via
measure theory as
opposed to measure
theory via
integration, an
approach which
makes it easier to
grasp the subject.
Apart from its
central importance
to pure

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mathematics, the material is also relevant to applied mathematics and probability, with proof of the mathematics set out clearly and in considerable detail. Numerous worked examples necessary for teaching and

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learning at
undergraduate level
constitute a strong
feature of the book,
and after studying
statements of results
of the theorems,
students should be
able to attempt the
300 problem
exercises which test
comprehension and

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for which detailed solutions are provided.

Approaches integration via measure theory, as opposed to measure theory via integration, making it easier to understand the subject Includes

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numerous worked
examples necessary
for teaching and
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are provided for the
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the theorems
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variables and
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distributions,
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and the replacement
of queuing theory
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and Expected
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of automated
production systems

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and how these technologies are used to construct modern manufacturing systems.

Metric Spaces
PROBABILITY
AND MEASURE,
3RD ED

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*from the theory
of partial
differential
equations
(PDEs). Although
there are many
books on
functional
analysis and
many on PDEs,
this is the
first to cover
both of these
closely*

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connected
topics. Since
the French book
was first
published, it
has been
translated into
Spanish,
Italian,
Japanese,
Korean,
Romanian, Greek
and Chinese. The
English edition

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makes a welcome
addition to this
list.

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Intended To
Serve As A Text
In Analysis By
The Honours And
Post-Graduate
Students Of The
Various
Universities.
Professional Or
Those Preparing*

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*For Competitive
Examinations*

*Will Also Find
This Book*

Useful. The Book

Discusses The

Theory From Its

Very Beginning.

The Foundations

Have Been Laid

Very Carefully

And The

Treatment Is

Rigorous And On

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*Modem Lines. It
Opens With A
Brief Outline Of
The Essential
Properties Of
Rational Numbers
And Using
Dedekinds Cut,
The Properties
Of Real Numbers
Are Established.
This Foundation
Supports The
Subsequent*

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*Topological
Frame Work Real
Sequences And
Series,
Continuity
Differentiation,
Functions Of
Several
Variables,
Elementary And
Implicit
Functions,
Riemann And Riem*

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ann-Stieltjes

Integrals,

Lebesgue

Integrals,

Surface, Double

And Triple

Integrals Are

Discussed In

Detail. Uniform

Convergence,

Power Series,

Fourier Series,

Improper

Integrals Have

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*Been Presented
In As Simple And
Lucid Manner As
Possible And
Fairly Large
Number Solved
Examples To
Illustrate
Various Types
Have Been
Introduced. As
Per Need, In The
Present Set Up,
A Chapter On*

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*Metric Spaces
Discussing
Completeness,
Compactness And
Connectedness Of
The Spaces Has
Been Added.
Finally Two
Appendices
Discussing Beta-
Gamma Functions,
And Cantors
Theory Of Real
Numbers Add*

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theory of

measure,

integration, and

real analysis.

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approach, Axler

lays the

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further study by
promoting a deep
understanding of
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courses,
creating a
versatile entry*

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graduate studies
in all areas of
pure and applied
mathematics.*

*Motivated by a
brief review of
Riemann
integration and
its
deficiencies,
the text begins
by immersing
students in the*

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*concepts of
measure and
integration.
Lebesgue measure
and abstract
measures are
developed
together, with
each providing
key insight into
the main ideas
of the other
approach.*

Lebesgue

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*integration
links into
results such as
the Lebesgue
Differentiation
Theorem. The
development of
products of
abstract
measures leads
to Lebesgue
measure on \mathbb{R}^n .
Chapters on
Banach spaces,*

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L_p spaces, and Hilbert spaces showcase major results such as the Hahn-Banach Theorem, Hölder's Inequality, and the Riesz Representation Theorem. An in-depth study of linear maps on Hilbert spaces

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Building on the Hilbert space material, a

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*chapter on
Fourier analysis
provides an
invaluable
introduction to
Fourier series
and the Fourier
transform. The
final chapter
offers a taste
of probability.
Extensively
class tested at
multiple*

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written by an
award-winning
mathematical
expositor,
Measure,
Integration &
Real Analysis is
an ideal
resource for
students at the
start of their
journey into
graduate*

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prerequisite of
elementary
undergraduate
real analysis is
assumed;
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instructors
looking to
reinforce these
ideas will
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Real Analysis
that is freely
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Manifolds
Introduction to
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Fourth Edition*

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"Lebesgue Integration on Euclidean Space' contains a concrete, intuitive, and patient derivation of Lebesgue measure and integration on \mathbb{R}^n . It contains many exercises that are incorporated throughout the text, enabling the reader to apply immediately

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the new ideas that
have been
presented" --

This is a graduate
text introducing the
fundamentals of
measure theory and
integration theory,
which is the
foundation of
modern real
analysis. The text
focuses first on the
concrete setting of

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Lebesgue measure and the Lebesgue integral (which in turn is motivated by the more classical concepts of Jordan measure and the Riemann integral), before moving on to abstract measure and integration theory, including the standard convergence

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theorems, Fubini's theorem, and the Carathéodory extension theorem. Classical differentiation theorems, such as the Lebesgue and Rademacher differentiation theorems, are also covered, as are connections with probability theory.

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The material is intended to cover a quarter or semester's worth of material for a first graduate course in real analysis. There is an emphasis in the text on tying together the abstract and the concrete sides of the subject, using the latter to illustrate

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and motivate the former. The central role of key principles (such as Littlewood's three principles) as providing guiding intuition to the subject is also emphasized. There are a large number of exercises throughout that develop key aspects

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of the theory, and are thus an integral component of the text. As a supplementary section, a discussion of general problem-solving strategies in analysis is also given. The last three sections discuss optional topics related to the main

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matter of the book.

A Readable yet
Rigorous Approach
to an Essential Part
of Mathematical
Thinking Back by
popular demand,
Real Analysis and
Foundations, Third
Edition bridges the
gap between classic
theoretical texts and
less rigorous ones,
providing a smooth

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transition from logic and proofs to real analysis. Along with the basic material, the text covers Riemann-Stieltjes integrals, Fourier analysis, metric spaces and applications, and differential equations. New to the Third Edition Offering a more

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streamlined presentation, this edition moves elementary number systems and set theory and logic to appendices and removes the material on wavelet theory, measure theory, differential forms, and the method of characteristics. It

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also adds a chapter on normed linear spaces and includes more examples and varying levels of exercises. Extensive Examples and Thorough Explanations Cultivate an In-Depth Understanding This best-selling book continues to give

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honours

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Physics), M.A/M.Sc.

(Mathematics and
Physics), B.E.

Students of Various
Universities and for

I.A.S., P.C.S., AMIE,
GATE, and other

competitive

exams. Almost all

the chapters have

been rewritten so

that in the present

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form, the reader will not find any difficulty in understanding the subject matter. The matter of the previous edition has been re-organised so that now each topic gets its proper place in the book. More solved examples have been added so that now

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each topic gets its proper place in the book. References to the latest papers of various universities and I.A.S.

examination have been made at proper places.

Introduction to Real
Analysis

Measure, Integration
& Real Analysis

Analysis I

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Measure Theory,
Integration, and
Hilbert Spaces

*Using an extremely
clear and informal
approach, this book
introduces readers to a
rigorous understanding
of mathematical
analysis and presents
challenging math
concepts as clearly as
possible. The real
number system.*

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*Differential calculus
of functions of one
variable. Riemann
integral functions of
one variable. Integral
calculus of real-valued
functions. Metric
Spaces. For those who
want to gain an
understanding of
mathematical analysis
and challenging
mathematical concepts.
Real Analysis (Classic*

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Math Classics

Introduction to Real

Analysis, Fourth

Edition by Robert G.

BartleDonald R.

Sherbert The first three

editions were very well

received and this edition

maintains the

same spirit and user-

friendly approach as

earlier editions. Every

section has been

examined. Some sections

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have been revised, new examples and exercises have been added, and a new section on the Darboux approach to the integral has been added to Chapter 7. There is more material than can be covered in a semester and instructors will need to make selections and perhaps use certain topics as honors or extra credit

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projects. To provide some help for students in analyzing proofs of theorems, there is an appendix on "Logic and Proofs" that discusses topics such as implications, negations, contrapositives, and different types of proofs. However, it is a more useful experience to learn how to construct proofs by first watching

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and then doing than by reading about techniques of proof. Results and proofs are given at a medium level of generality. For instance, continuous functions on closed, bounded intervals are studied in detail, but the proofs can be readily adapted to a more general situation. This approach

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is used to advantage in Chapter 11 where topological concepts are discussed. There are a large number of examples to illustrate the concepts, and extensive lists of exercises to challenge students and to aid them in understanding the significance of the theorems. Chapter 1 has a brief summary of the

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*notions and notations
for sets and functions
that will be used. A
discussion of
Mathematical Induction
is given, since inductive
proofs arise frequently.
There is also a section
on finite, countable and
infinite sets. This
chapter can be used to
provide some practice in
proofs, or covered
quickly, or used as*

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background material and returning later as necessary. Chapter 2 presents the properties of the real number system. The first two sections deal with Algebraic and Order properties, and the crucial Completeness Property is given in Section 2.3 as the Supremum Property. Its

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ramifications are discussed throughout the remainder of the chapter. In Chapter 3, a thorough treatment of sequences is given, along with the associated limit concepts. The material is of the greatest importance. Students find it rather natural although it takes time for them to become

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accustomed to the use of epsilon. A brief introduction to Infinite Series is given in Section 3.7, with more advanced material presented in Chapter 9 Chapter 4 on limits of functions and Chapter 5 on continuous functions constitute the heart of the book. The discussion of limits and continuity

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relies heavily on the use of sequences, and the closely parallel approach of these chapters reinforces the understanding of these essential topics. The fundamental properties of continuous functions on intervals are discussed in Sections 5.3 and 5.4. The notion of a gauge is introduced in Section 5.5 and used to

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give alternate proofs of these theorems.

Monotone functions are discussed in Section 5.6. The basic theory of the derivative is given in the first part of Chapter 6. This material is standard, except a result of Caratheodory is used to give simpler proofs of the Chain Rule and the Inversion Theorem. The

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remainder of the chapter consists of applications of the Mean Value Theorem and may be explored as time permits. In Chapter 7, the Riemann integral is defined in Section 7.1 as a limit of Riemann sums. This has the advantage that it is consistent with the students' first exposure

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to the integral in calculus, and since it is not dependent on order properties, it permits immediate generalization to complex- and vector-values functions that students may encounter in later courses. It is also consistent with the generalized Riemann integral that is discussed in Chapter 10.

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*Sections 7.2 and 7.3
develop properties of
the integral and
establish
the Fundamental
Theorem and many
more*

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**by the author
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summer of
1988. The
author surveys
a wide
collection of
techniques for
showing the
existence of
solutions to**

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various

nonlinear

partial

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equations,

especially when

strong analytic

estimates are

unavailable.

The overall

guiding

viewpoint is

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**sequence of
approximate
solutions
converges only
weakly, one
must exploit
the nonlinear
structure of the
PDE to justify
passing to
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of the motion
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**with a
discussion of
the real number
system as a
complete
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(Dedekind's
construction is
now treated in
an appendix to
Chapter I.) The
topological
background**

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**needed for the
development of
convergence,
continuity,
differentiation
and integration
is provided in
Chapter 2.**

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section on the
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