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*Having the right answer doesn't
guarantee understanding. This book
helps physics students learn to take an
informed and intuitive approach to*

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solving problems. It assists undergraduates in developing their skills and provides them with grounding in important mathematical methods. Starting with a review of basic mathematics, the author presents a thorough analysis of infinite series, complex algebra, differential equations, and Fourier series.

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Succeeding chapters explore vector spaces, operators and matrices, multi-variable and vector calculus, partial differential equations, numerical and complex analysis, and tensors. Additional topics include complex variables, Fourier analysis, the calculus of variations, and densities and distributions. An excellent

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*math reference guide, this volume is also
a helpful companion for physics students
as they work through their assignments.*

*Fundamentals of Brain Network Analysis
is a comprehensive and accessible
introduction to methods for unraveling
the extraordinary complexity of neuronal
connectivity. From the perspective of*

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graph theory and network science, this book introduces, motivates and explains techniques for modeling brain networks as graphs of nodes connected by edges, and covers a diverse array of measures for quantifying their topological and spatial organization. It builds intuition for key concepts and methods by

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*illustrating how they can be practically
applied in diverse areas of neuroscience,
ranging from the analysis of synaptic
networks in the nematode worm to the
characterization of large-scale human
brain networks constructed with
magnetic resonance imaging. This text is
ideally suited to neuroscientists wanting*

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*to develop expertise in the rapidly
developing field of neural connectomics,
and to physical and computational
scientists wanting to understand how
these quantitative methods can be used to
understand brain organization.*

*Extensively illustrated throughout by
graphical representations of key*

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*mathematical concepts and their
practical applications to analyses of
nervous systems* **Comprehensively covers
graph theoretical analyses of structural
and functional brain networks, from
microscopic to macroscopic scales, using
examples based on a wide variety of
experimental methods in neuroscience**

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*Designed to inform and empower
scientists at all levels of experience, and
from any specialist background, wanting
to use modern methods of network
science to understand the organization of
the brain*

*Written in an easy-to-understand
manner, this comprehensive textbook*

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brings together both basic and advanced concepts of numerical methods in a single volume. Important topics including error analysis, nonlinear equations, systems of linear equations, interpolation and interpolation for Equal intervals and bivariate interpolation are discussed comprehensively. The textbook is written

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*to cater to the needs of undergraduate
students of mathematics, computer
science, mechanical engineering, civil
engineering and information technology
for a course on numerical
methods/numerical analysis. The text
simplifies the understanding of the
concepts through exercises and practical*

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examples. Pedagogical features including solved examples and unsolved exercises are interspersed throughout the book for better understanding.

This is a textbook for a course in Honors Analysis (for freshman/sophomore undergraduates) or Real Analysis (for junior/senior undergraduates) or

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Analysis-I (beginning graduates). It is intended for students who completed a course in 'AP Calculus', possibly followed by a routine course in multivariable calculus and a computational course in linear algebra. There are three features that distinguish this book from many other books of a

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similar nature and which are important for the use of this book as a text. The first, and most important, feature is the collection of exercises. These are spread throughout the chapters and should be regarded as an essential component of the student's learning. Some of these exercises comprise a routine follow-up to

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the material, while others challenge the student's understanding more deeply.

The second feature is the set of independent projects presented at the end of each chapter. These projects supplement the content studied in their respective chapters. They can be used to expand the student's knowledge and

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*understanding or as an opportunity to
conduct a seminar in Inquiry Based*

*Learning in which the students present
the material to their class. The third
really important feature is a series of
challenge problems that increase in
impossibility as the chapters progress.*

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Fusion of Metals
Introduction to Complex Variables and
Applications
International Edition
Cyclic Plasticity of Metals
Fundamentals of Mathematical Analysis

This textbook is intended for a one

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*semester course in complex analysis
for upper level undergraduates in
mathematics. Applications, primary
motivations for this text, are
presented hand-in-hand with theory
enabling this text to serve well in
courses for students in engineering*

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*or applied sciences. The overall aim
in designing this text is to
accommodate students of different
mathematical backgrounds and to
achieve a balance between
presentations of rigorous
mathematical proofs and*

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applications. The 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 one course, giving the instructor

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the option to choose those that are best suited for discussion. Examples showcase a variety of problems with completely worked out solutions, assisting students in working through the exercises. The numerous exercises vary in

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*difficulty from simple applications
of formulas to more advanced*

project-type problems. Detailed

hints accompany the more

challenging problems. Multi-part

exercises may be assigned to

individual students, to groups as

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*projects, or serve as further
illustrations for the instructor.*

*Widely used graphics clarify both
concrete and abstract concepts,
helping students visualize the proofs
of many results. Freely accessible
solutions to every-other-odd exercise*

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are posted to the book's Springer website. Additional solutions for instructors' use may be obtained by contacting the authors directly.

This applied book provides a comprehensive introduction to complex variable theory and its

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*applications. The Second Edition
features a revised and up-dated
presentation that reflects*

*contemporary theories and their
applications to current engineering
problems.*

The study of complex variables is

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*beautiful from a purely
mathematical point of view, and
very useful for solving a wide array
of problems arising in applications.
This introduction to complex
variables, suitable as a text for a
one-semester course, has been*

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*written for undergraduate students
in applied mathematics, science,
and engineering. Based on the
authors' extensive teaching
experience, it covers topics of keen
interest to these students, including
ordinary differential equations, as*

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*well as Fourier and Laplace
transform methods for solving
partial differential equations
arising in physical applications.
Many worked examples,
applications, and exercises are
included. With this foundation,*

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*students can progress beyond the
standard course and explore a
range of additional topics,
including generalized Cauchy
theorem, Painlevé equations,
computational methods, and
conformal mapping with circular*

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arcs. Advanced topics are labeled with an asterisk and can be included in the syllabus or form the basis for challenging student projects.

Providing a comprehensive introduction to complex variable

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*theory and its applications to
engineering problems, this text is
designed to make the subject matter*

more accessible to students.

Fundamentals of Brain Network

Analysis

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Analysis*

Fundamentals of complex analysis

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*In response to the exponentially
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scientists with a simple but
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introductory discussion on the
role of neural networks in

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a focus on matrices and
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coverage of matrix theory from a
geometric and physical*

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*perspective, Fundamentals of
Matrix Analysis with Applications
describes the functionality of
matrices and their ability to
quantify and analyze many
practical applications. Written by
a highly qualified author team, the*

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book presents tools for matrix analysis and is illustrated with extensive examples and software implementations. Beginning with a detailed exposition and review of the Gauss elimination method, the authors maintain readers'

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*interest with refreshing
discussions regarding the issues
of operation counts, computer
speed and precision, complex
arithmetic formulations,
parameterization of solutions,
and the logical traps that dictate*

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*strict adherence to Gauss's
instructions. The book heralds
matrix formulation both as
notational shorthand and as a
quantifier of physical operations
such as rotations, projections,
reflections, and the Gauss*

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*reductions. Inverses and
eigenvectors are visualized first
in an operator context before
being addressed computationally.
Least squares theory is
expounded in all its
manifestations including*

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*optimization, orthogonality,
computational accuracy, and
even function theory.*

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with Applications also features:
Novel approaches employed to
explicate the QR, singular value,*

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Schur, and Jordan

decompositions and their

applications Coverage of the role

of the matrix exponential in the

solution of linear systems of

differential equations with

constant coefficients Chapter-by-

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problems, technical writing
exercises, select solutions, and
group projects to aid
comprehension of the presented
concepts Fundamentals of Matrix
Analysis with Applications is an*

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*excellent textbook for
undergraduate courses in linear
algebra and matrix theory for
students majoring in
mathematics, engineering, and
science. The book is also an
accessible go-to reference for*

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*readers seeking clarification of
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*This book provides a unique path
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*undergraduate students to begin
studying the rich subject of
functional analysis with fewer
prerequisites than is normally
required. The text begins with a
self-contained and highly efficient
introduction to topology and*

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*measure theory, which focuses
on the essential notions required
for the study of functional
analysis, and which are often
buried within full-length overviews
of the subjects. This is
particularly useful for those in*

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*applied mathematics,
engineering, or physics who need
to have a firm grasp of functional
analysis, but not necessarily
some of the more abstruse
aspects of topology and measure
theory normally encountered. The*

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*reader is assumed to only have
knowledge of basic real analysis,
complex analysis, and algebra.*

*The latter part of the text provides
an outstanding treatment of
Banach space theory and
operator theory, covering topics*

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*not usually found together in
other books on functional
analysis. Written in a clear,
concise manner, and equipped
with a rich array of interesting
and important exercises and
examples, this book can be read*

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*The Second Edition of this
acclaimed text helps you apply
theory to real-world applications*

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*in mathematics, physics, and
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excellent coverage of topics such
as series, residues, and the
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valued functions; conformal*

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and analytic continuation.*

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number of assigned problems
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complex concepts and build your
own skills by putting them into*

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*practice. This edition features
many new problems, revised
sections, and an entirely new*

chapter on analytic continuation.

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Linear Finite Element Analysis

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*In this concise introduction to
the classical theory of one
complex variable the content
is driven by techniques and
examples, rather than
definitions and theorems.*

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***Fundamentals Of Complex
Analysis: Theory And***

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Applications

***Complex Analysis with
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***Fundamentals of Finite
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***Forecasting: principles and
practice***

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Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms.

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a useful gateway to the understanding of glycans.

Designed for the undergraduate student with a calculus background but no prior experience with complex analysis, this text discusses the theory of the most relevant mathematical

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topics in a student-friendly manner.

*With a clear and straightforward
writing style, concepts are introduced
through numerous examples,
illustrations, and applications. Each
section of the text contains an extensive
exercise set containing a range of*

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computational, conceptual, and geometric problems. In the text and exercises, students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate

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section devoted exclusively to the applications of complex analysis to science and engineering, providing students with the opportunity to develop a practical and clear understanding of complex analysis. The Mathematica syntax from the second

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*edition has been updated to coincide
with version 8 of the software. --*

*Covers some basic results pertaining to
the functions of complex variable,
analytic function, entire function,
laurent expansion, calculus of residues,
uniform convergence and conformal*

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*mapping. It will be useful for
undergraduate and postgraduates.*

*This book provides a 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.*

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Outlines and Highlights for
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Edward B Saff

Fundamentals and Applications

*Fundamentals and Applications of
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Fundamentals of Abstract Analysis

Cyclic Plasticity of Metals:

Modeling Fundamentals and

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Applications provides an exhaustive overview of the fundamentals and applications of various cyclic plasticity models including forming and spring back, notch analysis, fatigue life prediction, and more. Covering metals with an array of

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different structures, such as hexagonal close packed (HCP), face centered cubic (FCC), and body centered cubic (BCC), the book starts with an introduction to experimental macroscopic and microscopic observations of cyclic

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plasticity and then segues into a discussion of the fundamentals of the different cyclic plasticity models, covering topics such as kinematics, stress and strain tensors, elasticity, plastic flow rule, and an array of other concepts. A review of the

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available models follows, and the book concludes with chapters covering finite element implementation and industrial applications of the various models. Reviews constitutive cyclic plasticity models for various metals and alloys

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with different cell structures (cubic, hexagonal, and more), allowing for more accurate evaluation of a component's performance under loading Provides real-world industrial context by demonstrating applications of cyclic plasticity

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models in the analysis of
engineering components Overview
of latest models allows researchers
to extend available models or
develop new ones for analysis of an
array of metals under more complex
loading conditions

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Fundamentals of Mathematical Analysis explores real and functional analysis with a substantial component on topology. The three leading chapters furnish background information on the real and complex number fields, a

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concise introduction to set theory,
and a rigorous treatment of vector
spaces. Fundamentals of
Mathematical Analysis is an
extensive study of metric spaces,
including the core topics of
completeness, compactness and

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function spaces, with a good number of applications. The later chapters consist of an introduction to general topology, a classical treatment of Banach and Hilbert spaces, the elements of operator theory, and a deep account of measure and

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integration theories. Several courses can be based on the book. This book is suitable for a two-semester course on analysis, and material can be chosen to design one-semester courses on topology or real analysis. It is designed as an

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accessible classical introduction to the subject and aims to achieve excellent breadth and depth and contains an abundance of examples and exercises. The topics are carefully sequenced, the proofs are detailed, and the writing style is

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clear and concise. The only prerequisites assumed are a thorough understanding of undergraduate real analysis and linear algebra, and a degree of mathematical maturity.

The book divided in ten chapters

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deals with: " Algebra of complex numbers and its various geometrical properties, properties of polar form of complex numbers and regions in the complex plane. " Limit, continuity, differentiability. "

Different kinds of complex valued

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functions. " Different types of transformations. " Conformal mappings of different functions. " Properties of bilinear and special bilinear transformation. " Line integrals, their properties and different theorems. " Sequences and

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series, Power series, Zero s of functions, residues and residue theorem, meromorphic functions, different kinds of singularities. " Evaluation of real integrals. " Analytic continuation, construction of harmonic functions, infinite

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product, their properties and
Gamma function. " Schwarz-
Christoffel transformations,
mapping by multi valued functions,
entire functions. " Jensen's theorem
and Poisson-Jensen theorem. The
book is designed as a textbook for

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UG and PG students of science as well as engineering

Laser powder bed fusion of metals is a technology that makes use of a laser beam to selectively melt metal powder layer-by-layer in order to fabricate complex geometries in

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high performance materials. The technology is currently transforming aerospace and biomedical manufacturing and its adoption is widening into other industries as well, including automotive, energy, and traditional manufacturing. With

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an increase in design freedom brought to bear by additive manufacturing, new opportunities are emerging for designs not possible previously and in material systems that now provide sufficient performance to be qualified in end-

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use mission-critical applications.

After decades of research and development, laser powder bed fusion is now enabling a new era of digitally driven manufacturing.

Fundamentals of Laser Powder Bed Fusion of Metals will provide the

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fundamental principles in a broad range of topics relating to metal laser powder bed fusion. The target audience includes new users, focusing on graduate and undergraduate students; however, this book can also serve as a

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reference for experienced users as well, including senior researchers and engineers in industry. The current best practices are discussed in detail, as well as the limitations, challenges, and potential research and commercial opportunities

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moving forward. Presents laser
powder bed fusion fundamentals, as
well as their inherent challenges
Provides an up-to-date summary of
this advancing technology and its
potential Provides a comprehensive
textbook for universities, as well as

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a reference for industry Acts as
quick-reference guide

Calculus Made Easy

Modular Forms

Mathematical Tools for Physics

Fundamentals of Complex Analysis
with Applications to Engineering

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and Science

Complex Analysis with Applications
to Flows and Fields

This book is intended to serve as a
text for first and second year
courses in single variable complex
analysis. The material that is

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appropriate for more advanced
study is developed from
elementary material. The concepts

are illustrated with large numbers
of examples, many of which
involve problems students
encounter in other courses. For

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example, students who have taken an introductory physics course will have encountered analysis of simple AC circuits. This text revisits such analysis using complex numbers. Cauchy's residue theorem is used to

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evaluate many types of definite integrals that students are introduced to in the beginning calculus sequence. Methods of conformal mapping are used to solve problems in electrostatics. The book contains material that is

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not considered in other popular
complex analysis texts.

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presents the theory of functions of a complex variable, from the complex plane to the calculus of residues to power series to conformal mapping. The book explores numerous physical and

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engineering applications concerning potential flows, the gravity field, electro- and magnetostatics, steady he

With this second volume, we enter the intriguing world of complex analysis. From the first theorems

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on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there,

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one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this

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background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number

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theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between

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