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In this chapter, we survey the algebraic and geometric structure of the complex number system. We assume various corresponding properties of real numbers to be known.

1. SUMS AND PRODUCTS
Complex numbers can be defined as ordered

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pairs (x,y) of real numbers that are to be interpreted as points in the complex plane, with rectangular coordinates x and y , just as

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and Applications—
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Complex variable, In
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variable that can take on the value of a complex number. In basic algebra, the variables x and y generally stand for values of real numbers. The algebra of complex numbers (complex analysis) uses the complex variable z to represent a number of the form $a + bi$. The modulus

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of z is its absolute
value.

Complex variable |
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Complex random variable may take are complex numbers.

Complex random variables can always be considered as pairs of real random variables: their real and imaginary parts. Therefore, the distribution of one complex random variable may be interpreted as the joint

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distribution of two real
random variables.

Some concepts of
real random var

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~~Complex random
variable~~ — Wikipedia

In the calculus of
functions of a
complex variable
there are three
fundamental tools, the
same fundamental
tools as for real

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variables.

Differentiation,
Integration, and
Power Series. I'll first
introduce all three in
the context of
complex variables,
then show the
relations between
them.

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1.1 Algebra of

Complex numbers A

complex number $z =$

$x + iy$ is composed of a

real part $\Re(z) = x$ and

an imaginary part $\Im(z)$

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$\in \mathbb{C}$, both of which are real numbers, $x, y \in \mathbb{R}$. Complex numbers can be defined as pairs of real numbers $(x; y)$ with special manipulation rules. That's how complex numbers are defined in Fortran or C.

~~1 Basics of Series
and Complex
Numbers~~

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Derivatives, Cauchy-
Riemann equations,
Analytic Functions,
Harmonic Functions,
Complex Integration:
Cauch...

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COMPLEX

CONJUGATES

The complex conjugate, or simply the conjugate, of a complex number

$z = x + iy$ is defined as the complex number $x - iy$ and is denoted by \bar{z} ; that is, $\bar{z} = x - iy$.

(1) The number z is represented by the point (x, y) , which is the reflection in the real axis of the point

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(x, y) representing z
(Fig. 5).

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Spectroscopy ...~~

Complex analysis,
traditionally known as
the theory of functions
of a complex variable,

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Complex
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is the branch of mathematical analysis that investigates functions of complex numbers. It is useful in many branches of mathematics, including algebraic geometry, number theory, analytic combinatorics, applied mathematics; as well as in physics, including the

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branches of hydrodynamics, thermodynamics, and particularly quantum mechanics. By extension, use of complex analysis also has applications in engineering

~~Complex analysis~~

~~Wikipedia~~

Course Features.

Assignments: problem

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sets with solutions;
Exams and solutions;
Course Highlights.

This course features a complete set of assignments with solutions and all exams are available. In addition, the study materials section includes MATLAB®-generated three-dimensional graphics (e.g.,

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(Newton Iterations and
Multiple-Valued
Functions) and a
MATLAB® tutorial.

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~~Complex Variables
with Applications |
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Complex analysis is a
basic tool with a great
many practical
applications to the
solution of physical
problems. It revolves

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around complex analytic functions—functions that have a complex derivative. Unlike calculus using real variables, the mere existence of a complex derivative has strong implications for the properties of the function.

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~~Complex Variables
with Applications |
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The common
formulas for di
erentiation are exactly
the same for complex
variables as they are
for real variables, and
their proofs are
exactly the same. For
example, the product
formula: $f(z + z)g(z z$
 $f(z)g(z) z = f(z + z)g (z$

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$(f(z)g(z+z) + f(z)g(z+z)) - (f(z)g(z) + f(z+z)g(z)) = f(z)g(z+z) - f(z)g(z) + f(z+z)g(z) - f(z)g(z)$
As $z \rightarrow 0$, this becomes the familiar $f(z)g'(z) + f'(z)g(z)$. That the numbers are complex made no difference.

This text on complex variables is geared toward graduate

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students and
undergraduates who
have taken an
introductory course in
real analysis. It is a
substantially revised
and updated edition of
the popular text by
Robert B. Ash,
offering a concise
treatment that
provides careful and
complete
explanations as well

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as numerous problems and solutions. An introduction presents basic definitions, covering topology of the plane, analytic functions, real-differentiability and the Cauchy-Riemann equations, and exponential and harmonic functions. Succeeding chapters

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examine the
elementary theory
and the general
Cauchy theorem and
its applications,
including singularities,
residue theory, the
open mapping
theorem for analytic
functions, linear
fractional
transformations,
conformal mapping,
and analytic

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mappings of one disk to another. The Riemann mapping theorem receives a thorough treatment, along with factorization of analytic functions. As an application of many of the ideas and results appearing in earlier chapters, the text ends with a proof of the prime number

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theorem.

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Fundamentals of analytic function theory — plus lucid exposition of 5 important applications: potential theory, ordinary differential equations,

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Fourier transforms,
Laplace transforms,
and asymptotic
expansions. Includes
66 figures.

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includes existence
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of differential systems
where data is analytic,
holomorphic
functions, Cauchy's
integral, Taylor and

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Variables And Applications 8th

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From the algebraic
properties of a
complete number
field, to the analytic
properties imposed by
the Cauchy integral
formula, to the
geometric qualities
originating from
conformality, Complex

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Variables: A Physical Approach with Applications and MATLAB explores all facets of this subject, with particular emphasis on using theory in practice. The first five chapters encompass the core material of the book. These chapters cover fundamental concepts,

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holomorphic and harmonic functions, Cauchy theory and its applications, and isolated singularities.

Subsequent chapters discuss the argument principle, geometric theory, and conformal mapping, followed by a more advanced discussion of harmonic functions.

The author also

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presents a detailed glimpse of how complex variables are used in the real world, with chapters on Fourier and Laplace transforms as well as partial differential equations and boundary value problems. The final chapter explores computer tools, including

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Mathematica[®],
Maple[™], and
MATLAB[®], that can
be employed to study
complex variables.

Each chapter contains
physical applications
drawing from the
areas of physics and
engineering. Offering
new directions for
further learning, this
text provides modern
students with a

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future work in the
mathematical
sciences.

Suitable for advanced
undergraduates and
graduate students,
this text develops
comparison theorems
to establish the
fundamentals of

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applications to partial
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exposition outlines the
fundamentals of the
theory of single
sheeted domains of
holomorphy. It further
illustrates applications
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theory, the theory of functions, and differential equations with constant coefficients. Students of quantum field theory will find this text of particular value. The text begins with an introduction that defines the basic concepts and elementary propositions, along

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with the more salient facts from the theory of functions of real variables and the theory of generalized functions. Subsequent chapters address the theory of plurisubharmonic functions and pseudoconvex domains, along with characteristics of domains of

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holomorphy. These explorations are further examined in terms of four types of domains: multiple-circular, tubular, semitubular, and Hartogs' domains. Surveys of integral representations focus on the Martinelli-Bochner, Bergman-Weil, and Bochner representations. The

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final chapter is devoted to applications, particularly those involved in field theory. It employs the theory of generalized functions, along with the theory of functions of several complex variables.

Contents include
calculus in the plane;

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harmonic functions in the plane; analytic functions and power series; singular points and Laurent series; and much more.

Numerous problems and solutions. 1972 edition.

This text is part of the International Series in Pure and Applied Mathematics. It is

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Topics include

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Complex numbers,
analytic functions,
elementary functions,
and integrals.

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