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Well, the objects of functions of several complex variables are manifolds with a complex topological vector space structure. Therefore, they are the centerpieces of the bulk of post-19th century analysis and geometry and the tools of sheaf theory via commutative algebra are deeply interwoven in them. As a result of all this, any "pure" approach—say, emphasizing analysis—only tells part of the story.

In this chapter, we shall define holomorphic functions of several complex variables. The essentially local theory given in Chapter 1, §§3, 4 extends to these functions with little effort.

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Introduction to Complex Analysis - 2.1 - Complex Functions **Functions Of Several Complex Variables**

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$n(x-y) \geq 1+p \cdot n(x-y)$ for all $x, y \in V$. defines a metric on V and that the topology T induced by this metric coincides with T . 22Chapter 1. Elementary theory of several complex variables. Remark 1.4.8. Topological vector spaces whose topologies can be induced by a metric are called metrizable.

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Functions of Several Complex Variables and Their Singularities

Holomorphic function — Wikipedia

Several complex variables — Wikipedia Republished // WIKI 2

As the simplest integral representation of analytic functions, the concept of the Cauchy integral can also be retained for functions of several variables. If one introduces complex variables $z = x + iy$, $\overline{z} = x - iy$, one can describe any function of two variables x and y , $w = f(x, y) = u(x, y) + iv(x, y)$, as a function of z and \overline{z} .

Function of several real variables — Wikipedia

ANALYTIC FUNCTIONS OF SEVERAL COMPLEX VARIABLES 23 A great number of papers have been devoted to the important case of the four-point function ($n = 3$) in the frame of the linear theory. In these papers the dispersion relations with respect to s for scattering amplitudes $T(s, t), s = (k_0 + kl)^2, t$

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Several complex variables — WikiMilli, The Best Wikipedia ...

Complex Variable Theory on Open Subsets of \mathbb{C}^n : 1: Functions of one Complex Variable, Cauchy Integral Formula, Taylor Series, Analytic Continuation : 2: Cauchy Integral Formula (cont.), Inhomogeneous C.R. Equation, Riemann Equation in One Variable, Functions of Several Complex Variables : 3

Introduction to Complex Analysis in Several Variables

Analytic Functions of Several Complex Variables (AMS ...

one and several variables For any $n \geq 1$, the holomorphy or complex differentiability of a function on a domain in \mathbb{C}^n implies its analyticity: a holomorphic function has local representations by convergent power series. This amazing fact was discovered by Cauchy in the years 1830–1840 and it helps to explain the nice

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Introduction to Complex Analysis - 2.1 - Complex Functions **Functions Of Several Complex Variables**

The theory of functions of several complex variables is the branch of mathematics dealing with complex-valued functions f on the space \mathbb{C}^n of n -tuples of complex numbers. As in complex analysis, which is the case $n = 1$ but of a distinct character, these are not just any functions: they are supposed to be holomorphic or complex analytic, so that locally speaking they are power series in the variables z_i . Equivalently, as it turns out, they are locally uniform limits of polynomial

Several complex variables — Wikipedia

In mathematical analysis, and applications in geometry, applied mathematics, engineering, natural sciences, and economics, a function of several real variables or real multivariate function is a function with more than one argument, with all arguments being real variables. This concept extends the

idea of a function of a real variable to several variables. The "input" variables take real values, while the "output", also called the "value of the function", may be real or complex. However, the stu

[Function of several real variables - Wikipedia](#)

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[Introduction to Complex Analysis in Several Variables](#)

Functions of several complex variables are in some basic ways more complicated than functions of a single complex variable. For example, the region of convergence of a power series is not necessarily an open ball; these regions are Reinhardt domains, the simplest example of which is a polydisk.

[Holomorphic function - Wikipedia](#)

Function theory of several complex variables by Steven G. Krantz, 2001, American Mathematical Society edition, in English - 2nd ed.

[Function theory of several complex variables \(2001 edition ...](#)

The theory of analytic functions of several complex variables enjoyed a period of remarkable development in the middle part of the twentieth century. After initial successes by Poincaré and others in the late 19th and early 20th centuries, the theory encountered obstacles that prevented it from growing quickly into an analogue of the theory for functions of one complex variable.

[Analytic Functions of Several Complex Variables \(AMS ...](#)

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The theory of functions of several complex variables is the branch of mathematics dealing with complex valued functions

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[Functions of Several Complex Variables and Their Singularities](#)

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