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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 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
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For any $n \geq 1$, the holomorphy or complex differentiability of a function on a domain in 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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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.
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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 $T(s,t), s = (k_0 + kl)^2, t = \{k_0 + k_2\}^2$

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 $n(x-y) = 1+p \cdot n(x-y)$ for all $x, y \in V$. defines a metric on V and that the topology T induced by this metric coincides with T .

Chapter 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.

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.

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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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