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?? *An outstanding
mathematician Kiyoshi Oka,
Functions of several complex*

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*variables Elementary Theory
of Analytic Functions of One
or Several Complex Variables*

by Henri Cartan #shorts

Complex Numbers, Complex

Variables, and Complex

Functions Mod-01 Lec-01

Analytic functions of a

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Complex Analysis Book:

Complex Variables and

Applications by Brown and

Churchill

Part I: Complex Variables,

Lec 2: Functions of a

Complex Variable

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Talk – Some Aspects of the
Theory of Several Complex
Variables by R.L. Zeinstra
(AS-SMS)

Complex Analysis Overview
Several complex variables

Part I: Complex Variables,
Lec 5: Integrating Complex

Page 9/52

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Mod-01 Lec-02 Analytic
functions of a complex
variable (Part II) Imaginary
Numbers Are Real [Part 1:
Introduction]

Oxford Mathematics 1st Year
Student Lecture: An

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Introduction to Complex

Numbers - Vicky Neale

Probably the best Book for

Complex numbers *L1.3*

Necessity of complex

numbers. An Invitation to

Complex Analysis Imaginary

Numbers, Functions of

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*Complex Variables: 3D
animations. T4. Complex
Integration Example 1*

Riemann Hypothesis -

Numberphile **Complex Analysis**

03: The Cauchy-Riemann

Equations What are Complex

Variables? ~~Oldschool Complex~~

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~~Analysis Book~~ Holomorphic
Functions | Complex Analysis

| Chegg Tutors **Winding
Numbers and Meromorphic**

Functions Explained! |

Complex Variables Functions
of a complex variable |

Complex Analysis |

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Math372, Fall2015, 32

SeveralComplexVar Elias M.

Stein - The Cauchy-Szeg?

projection in several

complex variables: L^p

estimates **Cauchy Riemann**

Equations and

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Differentiability | Analytic VS Holomorphic | Complex Analysis #2

Introduction to Complex
Analysis - 2.1 - Complex
Functions

~~Functions Of
Several Complex Variables~~

The theory of functions of

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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

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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

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out, they are locally
uniform limits of polynomial

~~Several complex variables
Wikipedia~~

In mathematical analysis,
and applications in
geometry, applied

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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

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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

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or complex. However, the stu

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~~Function of several real
variables — Wikipedia~~

As the simplest integral
representation of analytic
functions, the concept of
the Cauchy integral can also

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And their singularities of
several variables. If one
introduces complex variables

$$z = x + iy, \quad \overline{z} = x - iy,$$

$$\overline{z} = x - iy,$$

one can describe any

function of two variables $w = f(x,$

$y)$, $w = f(x,$

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$f(x, y) = u(x, y) + iv(x, y)$
as a function of z
and \overline{z} ;

~~Functions of a complex
variable, theory of
Encyclopedia ...~~

Complex analysis,

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traditionally known as the theory of functions of a complex variable, is the branch of mathematical analysis that investigates functions of complex numbers. It is useful in many branches of

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mathematics, including algebraic geometry, number theory, analytic combinatorics, applied mathematics; as well as in physics, including the branches of hydrodynamics, thermodynamics, and

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particularly quantum
mechanics.

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~~Several complex variables —
WikiMili, The Best Wikipedia~~

~~...~~

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(AMS Chelsea Publishing) 2
by Steven G. Krantz (ISBN:
9780821827246) from Amazon's
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eligible orders.

~~Function Theory of Several~~

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~~Complex Variables (AMS
Chelsea . . .~~

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

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convergent power series.

This amazing fact was
discovered by Cauchy in the
years 1830-1840 and it helps
to explain the nice

~~Several Complex Variables~~

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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

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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

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Mathematics
variables: book ...~~

ANALYTIC FUNCTIONS OF
SEVERAL COMPLEX VARIABLES 23

A great number of papers
have been devoted to the

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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 $T(s, t)$, $s = (k_0 + k_1)^2$, $t = (k_0 + k_2)^2$

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~~ANALYTIC FUNCTIONS OF
SEVERAL COMPLEX VARIABLES
AND ...~~

$d(x,y) = \sum_{k=1}^n |x_k - y_k|^p$. $d(x,y)$ for
all $x, y \in V$. defines a metric
on V and that the topology T .
induced by this metric

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coincides with T . 22 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.

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~~Introduction to Complex
Graduate Studies in
Analysis in Several
Mathematics
Variables~~

Functions of several complex variables are in some basic ways more complicated than functions of a single

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Mathematics

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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~~Holomorphic function —
Wikipedia~~

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

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ed.
Graduate Studies In
~~Function theory of several
Mathematics
complex variables (2001
edition...~~

The theory of analytic
functions of several complex
variables enjoyed a period

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of remarkable development in the middle part of the twentieth century. After initial successes by Poincare and others in the late 19th and early 20th centuries, the theory encountered obstacles that

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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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Abstract 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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~~Functions of Several Complex
Variables | SpringerLink~~

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

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~~Several complex variables —
Wikipedia Republished //
WIKI 2~~

Complex Variable Theory on
Open Subsets of \mathbb{C}^n : 1:
Functions of one Complex
Variable, Cauchy Integral

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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

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~~Lecture Notes | Topics in
Graduate Studies in
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Mathematics~~

Author Misc Blurb:

Translated by Philip G.

Spain. Abstract: The book
provides an introduction to

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the theory of functions of
several complex variables
and their singularities,
with special emphasis on
topological aspects. The
topics include Riemann
surfaces, holomorphic
functions of several

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variables, classification
and deformation of
singularities, fundamentals
of differential topology,
and the topology of
singularities.

~~Functions of Several Complex~~

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~~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

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And Their Singularities 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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Applications | Mathematics |
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