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Complex Variables and Applications

Unlike calculus using real variables, the mere existence of a complex derivative has strong implications for the properties of the function. Applications reviewed in

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this class include harmonic functions, two dimensional fluid flow, easy methods for computing (seemingly) hard integrals, Laplace transforms, and Fourier transforms with applications to engineering and physics.

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Applications of Complex Variables | Physics Forums

The concept of complex geometry and Argand plane is very much useful in constructing buildings and cars. This concept is used in 2-D designing of buildings and cars. It is also very useful in cutting of tools. Another possibility to use complex numbers in simple mechanics might be to use them to represent rotations.

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Complex analysis, 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 mathematics, including

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

Complex analysis - Wikipedia

Complex Variables and Applications, 9e will serve, just as the earlier editions did, as a textbook for an introductory course in the theory and application of functions of a complex variable. This new edition preserves the basic content and style of the earlier editions. The text is designed to develop the theory that is prominent in applications of the subject.

Complex Variables and Applications -
McGraw-Hill Education

Complex variables provide powerful methods for attacking problems that can be very difficult to solve in any other way,

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Engineering and it is the aim of this book to provide a thorough grounding in these methods and their application.

Complex Variables - Cambridge Core

I used this in part combined with Holland in a Graduate course in Complex Analysis which had a quite fun feeling, but at the end sort of left me wondering the use of this course. For an undergraduate course, I think a very short book is best, only cover the essentials, maybe introduce some of the applications.

Complex Variables and Applications:

Amazon.co.uk: Brown ...

The properties of Cauchy integrals are analysed and applied to mixed boundary value problems and singular integral equations. The Fourier transform is generalised to complex values of the transform variable, and used to solve

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Complex Variables and Applications by
Brown James Ward ...

Complex analysis, in particular the theory of conformal mappings, has many physical applications and is also used throughout analytic number theory. In modern times, it has become very popular through a new boost from complex dynamics and the

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pictures of fractals produced by iterating
holomorphic functions.

Lectures on Complex Analysis M.

Pollicott

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