

Complex Analysis With Mathematica

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Complex Analysis With Mathematica

Complex Analysis with Mathematica offers a new way of learning and teaching a subject that lies at the heart of many areas of pure and applied mathematics, physics, engineering and even art. This book offers teachers and students an opportunity to learn about complex numbers in a state-of-the-art computational environment.

Complex Analysis with Mathematica: William T. Shaw ...

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Complex Analysis with MATHEMATICA® 1, Shaw, William T ...

Complex Analysis | Mathematica & Wolfram Language for Math Students—Fast Intro How to work with complex numbers, expressions. Expand, convert between forms, extract real and imaginary parts, visualize. Tutorial for Mathematica & Wolfram Language.

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(PDF) Complex Analysis with Mathematica

Description This book presents complex numbers in a state-of-the-art computational environment. Its innovative approach also offers insights into areas too often neglected in a student treatment, including complex chaos, mathematical art, physics in three or more dimensions, and advanced fluid dynamics.

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Complex Analysis with Mathematica offers a new way of learning and teaching a subject that lies at the heart of many areas of pure and applied mathematics, physics, engineering and even art. This...

Complex Analysis with MATHEMATICA® - William T. Shaw ...

This book presents a way of learning complex analysis, using Mathematica. Includes CD with electronic version of the book. Differential Algebra Complex Analysis and Orthogonal Polynomials

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Starting with the algebraic system of complex numbers, it offers an entry-level course on complex analysis of one variable. It presents the study of analytic functions, conformal mapping, analysis of singularities, and the computation of various integrals. The final three chapters introduce more advanced topics and applications.

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I purchased (some time ago) a copy of William Shaw's Complex Analysis with Mathematica, published in 2006. He uses MathLink (something I've never done before) to speed up a Mandelbrot application. Here is his template file, named mandel.tm.

MathLink with Shaw's Complex Analysis with Mathematica ...

Complex valued function can be difficult to visualize due to depending on multiple variables and functions behaving differently along the imaginary axis. Using Mathematica's 2D plots separately for the real and imaginary parts, contour plots and 3D plots can greatly help. The following are a few examples.

Using Mathematica to study complex numbers (week 3)

Understanding Complex Analysis using Mathematica provides a powerful tool for carrying out the various analysis. In addition to standard Mathematica functions, the book utilizes many customized functions specifically designed for working with Complex Variables. These customized functions are used through the book.

Complex Analysis with Mathematica - Lulu.com

Description This book presents complex numbers in a state-of-the-art computational environment. Its innovative approach also offers insights into areas too often neglected in a student treatment, including complex chaos, mathematical art, physics in three or more dimensions, and advanced fluid dynamics.

Complex Analysis with Mathematica - Wolfram Research

"Complex analysis is one of the most classical branches of mathematical analysis and is closely related to many other areas of mathematics, including operator theory, harmonic analysis, probability theory, functional

analysis and dynamical systems.

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Complex Analysis with Mathematica offers a way of learning and teaching a subject that lies at the heart of many areas of pure and applied mathematics, physics, engineering and even art. This book offers teachers and students an opportunity to learn about complex numbers in a state-of-the-art computational environment.

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