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The main reference is Basic Complex Analysis, Third Edition, by Jerrold Marsden and Michael Hoffman. Homework problems will largely be taken from this book, so it is important to have access to it. Lectures may diverge from the book both in style and topics.

Basic Complex Analysis by Jerrold E. Marsden

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Marsden skillfully strikes a balance between the needs of math majors preparing for graduate study and the needs of physics and engineering students seeking applications of complex analysis. The book is clearly written and well-organized, with plenty of examples and exercises.

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Basic Complex Analysis skillfully combines a clear exposition of core theory with a rich variety of applications. Designed for undergraduates in mathematics, the physical sciences, and engineering who have completed two years of calculus and are taking complex analysis for the first time..

Basic Complex Analysis - Marsden and Hoffman

Jerrold Eldon Marsden (August 17, 1942 – September 21, 2010) was a mathematician. He was the Carl F. Braun Professor of Engineering and

Control & Dynamical Systems at the California Institute of Technology. Marsden is listed as an ISI highly cited researcher.

Complex analysis - Wikipedia

This text constitutes a collection of problems for using as an additional learning resource for those who are taking an introductory course in complex analysis.

Jerrold E. Marsden - Wikipedia

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Complex Variables course home page - math.uchicago.edu

1.1 The Field of Complex Numbers 1.2 Analytic Functions 1.3

The Complex Exponential 1.4 The Cauchy-Riemann Theorem

1.5 Contour Integrals CHAPTER 2: THE WORKS 2.1

Antiderivatives 2.2 Cauchy's Theorem 2.3 Cauchy's Integral

Formula 2.4 Cauchy's Theorem for Chains 2.5 Principles of

Linear Analysis 2.6 Cauchy's Theorem for Vector-Valued

Analytic Functions

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2iri analytic function analytic inside bounded branch Cauchy

integral formula Cauchy-Riemann equations circle of radius

closed curve closed disc complex numbers conformal map

converges absolutely converges uniformly cosh defined

differentiable entire function f is analytic f is constant f is

continuous $f(z_n) \rightarrow f(z_0)$ finite gives goes $h(z_0)$ harmonic ...

(PDF) Complex Analysis: Problems with solutions

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 algebraic geometry, number theory, analytic combinatorics, applied mathematics; as well as in physics, including the branches of hydrodynamics, thermodynamics, and particularly quantum mechanics. By extension, use of complex analysis also has applications in engineerin

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4 1. COMPLEX FUNCTIONS

Exercise 1.8. Consider the set of symbols $x+iy+ju+kv$, where x, y, u and v are real numbers, and the symbols i, j, k satisfy $i^2 = j^2 = k^2 = -1, ij = ji = k, jk = kj = i$ and $ki = ik = j$. Show that using these relations and calculating with the same formal rules as in dealing with real numbers, we obtain a skew field; this is the set

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Marsden/Hoffman is (one of) the best of the undergraduate complex analysis books in my opinion, although it does not mention the PNT or RZ equation at all. share | cite | improve this answer edited Aug 7 '15 at 1:26

Lecture Notes for Complex Analysis

Basic Complex Analysis. Some of the topics give additional technical details of results that were stated but not proved in the textbook while others treat additional topics and applications

that may be of interest to some readers. Pasadena, CA Jerry

Marsden and Mike Hoffman Fall, 1998

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Basic Complex Analysis. W. H. Freeman, Third Edition,

November 1998. The Fifth Printing of the Third Edition is

currently in Press. The third printing of the third edition

appeared in May of 2003. a Student Guide, containing the

solutions to Exercises marked with a bullet in the text, and an

Instructor's Manual are available from W. H. Freeman.

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