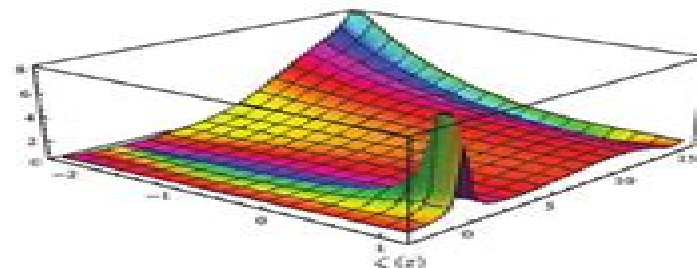
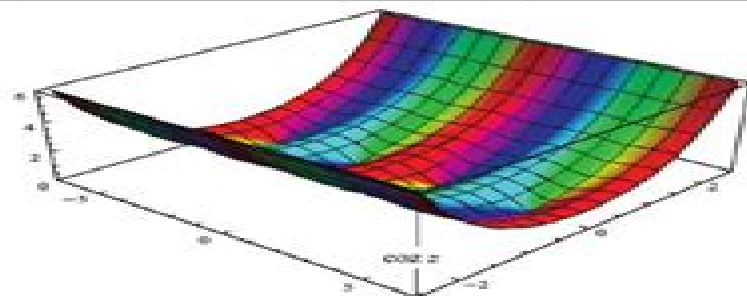
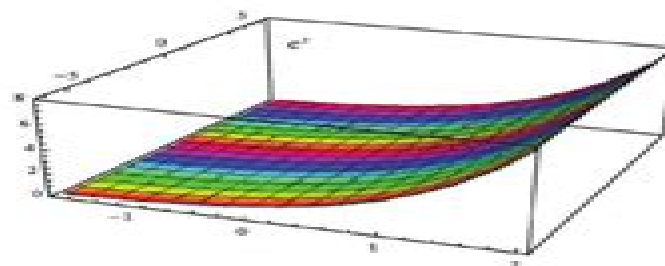
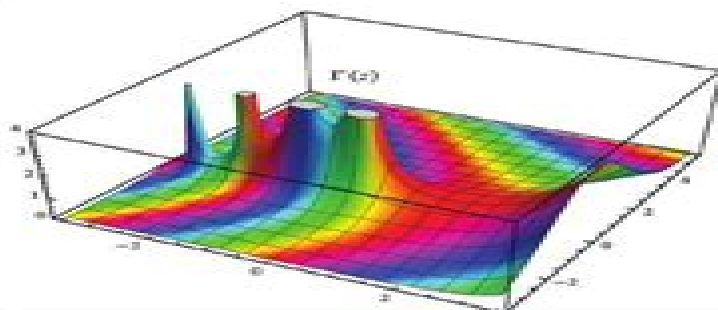
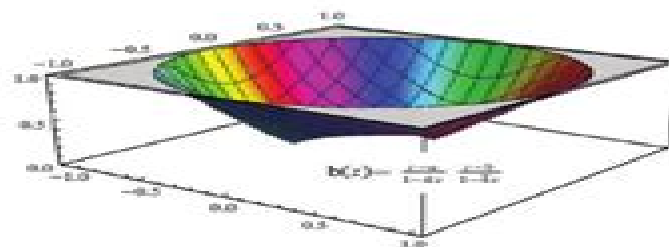
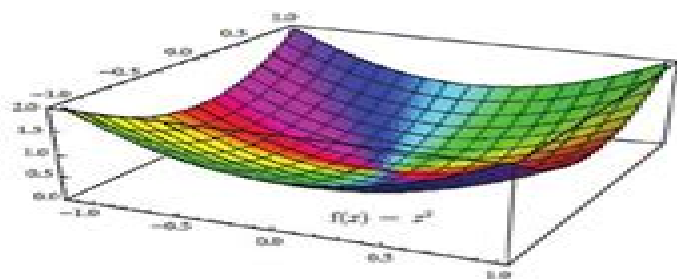


The Calculus of Complex Functions

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An Introduction to Complex Function Theory Bruce P. Palka, 1991 This book provides a rigorous yet elementary introduction to the theory of analytic functions of a single complex variable While presupposing in its readership a degree of mathematical maturity it insists on no formal prerequisites beyond a sound knowledge of calculus Starting from basic definitions the text slowly and carefully develops the ideas of complex analysis to the point where such landmarks of the subject as Cauchy s theorem the Riemann mapping theorem and the theorem of Mittag Leffler can be treated without sidestepping any issues of rigor The emphasis throughout is a geometric one most pronounced in the extensive chapter dealing with conformal mapping which amounts essentially to a short course in that important area of complex function theory Each chapter concludes with a wide selection

of exercises ranging from straightforward computations to problems of a more conceptual and thought provoking nature

Functions of a Complex Variable James Pierpont, 1914 [Functions of a Complex Variable](#) Edgar Giraldus Phillips, 1961 **The Calculus of Complex Functions** William Johnston, 2022-04-01 The book introduces complex analysis as a natural extension of the calculus of real valued functions The mechanism for doing so is the extension theorem which states that any real analytic function extends to an analytic function defined in a region of the complex plane The connection to real functions and calculus is then natural The introduction to analytic functions feels intuitive and their fundamental properties are covered quickly As a result the book allows a surprisingly large coverage of the classical analysis topics of analytic and meromorphic functions harmonic functions contour integrals and series representations conformal maps and the Dirichlet problem It also introduces several more advanced notions including the Riemann hypothesis and operator theory in a manner accessible to undergraduates The last chapter describes bounded linear operators on Hilbert and Banach spaces including the spectral theory of compact operators in a way that also provides an excellent review of important topics in linear algebra and provides a pathway to undergraduate research topics in analysis The book allows flexible use in a single semester full year or capstone course in complex analysis Prerequisites can range from only multivariate calculus to a transition course or to linear algebra or real analysis There are over one thousand exercises of a variety of types and levels Every chapter contains an essay describing a part of the history of the subject and at least one connected collection of exercises that together comprise a project level exploration **Functions of Complex Variables** Zane C. Motteler, 1975

Complex Analysis Jerry R. Muir, Jr., 2015-05-04 A thorough introduction to the theory of complex functions emphasizing the beauty power and counterintuitive nature of the subject Written with a reader friendly approach **Complex Analysis A Modern First Course in Function Theory** features a self contained concise development of the fundamental principles of complex analysis After laying groundwork on complex numbers and the calculus and geometric mapping properties of functions of a complex variable the author uses power series as a unifying theme to define and study the many rich and occasionally surprising properties of analytic functions including the Cauchy theory and residue theorem The book concludes with a treatment of harmonic functions and an epilogue on the Riemann mapping theorem Thoroughly classroom tested at multiple universities **Complex Analysis A Modern First Course in Function Theory** features Plentiful exercises both computational and theoretical of varying levels of difficulty including several that could be used for student projects Numerous figures to illustrate geometric concepts and constructions used in proofs Remarks at the conclusion of each section that place the main concepts in context compare and contrast results with the calculus of real functions and provide historical notes Appendices on the basics of sets and functions and a handful of useful results from advanced calculus Appropriate for students majoring in pure or applied mathematics as well as physics or engineering **Complex Analysis A Modern First Course in Function Theory** is an ideal textbook for a one semester course in complex analysis for those with a

strong foundation in multivariable calculus The logically complete book also serves as a key reference for mathematicians physicists and engineers and is an excellent source for anyone interested in independently learning or reviewing the beautiful subject of complex analysis

Function Theory of One Complex Variable Robert Everist Greene, Steven George Krantz, 2006 Complex analysis is one of the most central subjects in mathematics It is compelling and rich in its own right but it is also remarkably useful in a wide variety of other mathematical subjects both pure and applied This book covers complex variables as a direct development from multivariable real calculus

Theory of Functions of a Complex Variable Heinrich Burkhardt, 1913

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Function Theory of Several Complex Variables Steven George Krantz, 2001 Emphasizing integral formulas the geometric theory of pseudoconvexity estimates partial differential equations approximation theory inner functions invariant metrics and mapping theory this title is intended for the student with a background in real and complex variable theory harmonic analysis and differential equations

Theory of Complex Functions Reinhold Remmert, 2012-12-06 A lively and vivid look at the material from function theory including the residue calculus supported by examples and practice exercises throughout There is also ample discussion of the historical evolution of the theory biographical sketches of important contributors and citations in the original language with their English translation from their classical works Yet the book is far from being a mere history of function theory and even experts will find a few new or long forgotten gems here Destined to accompany students making their way into this classical area of mathematics the book offers quick access to the essential results for exam preparation Teachers and interested mathematicians in finance industry and science will profit from reading this again and again and will refer back to it with pleasure

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8.00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper's mass into account add these to the beaker 3 measure 50.0 ml of water in the

cylinder and add it to the beaker 4

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web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

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web lab 4 stoichiometry the reaction of iron with copper ii sulfate revised 8 19 2009 1 introduction in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces

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web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated CuSO_4 solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

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web stoichiometry the reaction of iron with copper ii sulfate purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction

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web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27 g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g