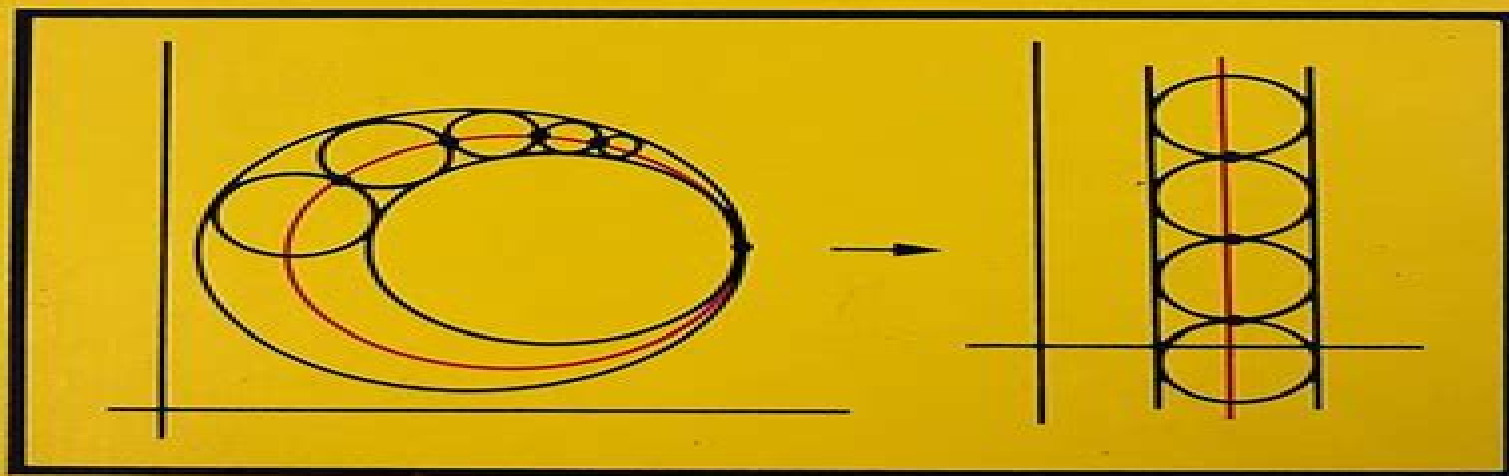


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Joseph Bak
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Complex Analysis



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Joseph Bak, Donald J. Newman, 2010-08-02 This unusual and lively textbook offers a clear and intuitive approach to the classical and beautiful theory of complex variables. With very little dependence on advanced concepts from several variable calculus and topology, the text focuses on the authentic complex variable ideas and techniques. Accessible to students at their early stages of mathematical study, this full first year course in complex analysis offers new and interesting motivations for classical results and introduces related topics, stressing motivation and technique. Numerous illustrations, examples, and now 300 exercises enrich the text. Students who master this textbook will emerge with an excellent grounding in complex analysis and a solid understanding of its wide applicability. [Complex Numbers and Geometry](#)

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Paul Pollack, Akash Singha Roy, 2021-02-08 This problem book gathers together 15 problem sets on analytic number theory that can be profitably approached by anyone from advanced high school students to those pursuing graduate studies.

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(Almost) Impossible Integrals, Sums, and Series Cornel Ioan Vălean,2019-05-10 This book contains a multitude of challenging problems and solutions that are not commonly found in classical textbooks One goal of the book is to present these fascinating mathematical problems in a new and engaging way and illustrate the connections between integrals sums and series many of which involve zeta functions harmonic series polylogarithms and various other special functions and constants Throughout the book the reader will find both classical and new problems with numerous original problems and solutions coming from the personal research of the author Where classical problems are concerned such as those given in Olympiads or proposed by famous mathematicians like Ramanujan the author has come up with new surprising or unconventional ways of obtaining the desired results The book begins with a lively foreword by renowned author Paul Nahin and is accessible to those with a good knowledge of calculus from undergraduate students to researchers and will appeal to all mathematical puzzlers who love a good integral or series

Introduction to Infinite-Dimensional Systems Theory Ruth Curtain,Hans Zwart,2020-04-05 Infinite dimensional systems is a well established area of research with an ever increasing number of applications Given this trend there is a need for an introductory text treating system and control theory for this class of systems in detail This textbook is suitable for courses focusing on the various aspects of infinite dimensional state space theory This book is made accessible for mathematicians and post graduate engineers with a minimal background in infinite dimensional system theory To this end all the system theoretic concepts introduced throughout the text are illustrated by the same types of examples namely diffusion equations wave and beam equations delay equations and the new class of platoon type systems Other commonly met distributed and delay systems can be found in the exercise sections Every chapter ends with such a section containing about 30 exercises testing the theoretical concepts as well An extensive account of the mathematical background assumed is contained in the appendix

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calculus of residues conformal mappings and harmonic functions The material in the remaining 8 chapters is more advanced with problems on Schwartz reflection analytic continuation Jensen's formula the Phragmen Lindelof theorem entire functions Weierstrass products and meromorphic functions the Gamma function and Zeta function Also beneficial for anyone interested in learning complex analysis

Reviews in Complex Analysis, 1980-1986, 1989 [Reviews in Complex Analysis, 1980-86](#), 1989

Numerical Analysis David Ronald Kincaid, Elliott Ward Cheney, 2009 This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing The subject of numerical analysis is treated from a mathematical point of view offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs In an engaging and informal style the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs Algorithms are presented in pseudocode so that students can immediately write computer programs in standard languages or use interactive mathematical software packages This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level

Ginzburg-Landau Phase Transition Theory and Superconductivity K.-H. Hoffmann, Q. Tang, 2012-12-06 The theory of complex Ginzburg Landau type phase transition and its applications to superconductivity and superfluidity has been a topic of great interest to theoretical physicists and has been continuously and persistently studied since the 1950s Today there is an abundance of mathematical results spread over numerous scientific journals However before 1992 most of the studies concentrated on formal asymptotics or linear analysis Only isolated results by Berger Jaffe and Taubes and some of their colleagues touched the nonlinear aspects in great detail In 1991 a physics seminar given by Ed Copeland at Sussex University inspired Q Tang the co author of this monograph to study the subject Independently in Munich K H Hoffmann and his collaborators Z Chen and J Liang started to work on the topic at the same time Soon it became clear that at that time groups of mathematicians at Oxford and Virginia Tech had already studied the subject for a couple of years They inspired experts in interface phase transition problems and their combined effort established a rigorous mathematical framework for the Ginzburg Landau system At the beginning Q Tang collaborated with C M Elliott and H Matano

Complex Variables and Their Applications Anthony D. Osborne, 1999 An understanding of functions of a complex variable together with the importance of their applications form an essential part of the study of mathematics *Complex Variables and their Applications* assumes as little background knowledge of the reader as is practically possible a sound knowledge of calculus and basic real analysis being the only essential prerequisites With an emphasis on clear and careful explanation the book covers all the essential topics covered in a first course on *Complex Variables* such as differentiation integration and applications Laurent series residue theory and applications and elementary conformal mappings The reader is also introduced to the Schwarz Christoffel transformation Dirichlet problems harmonic functions analytic continuation infinite products asymptotic series and elliptic functions Applications of complex variable

theory to linear ordinary differential equations and integral transforms are also included Complex Variables and their Applications is an ideal textbook and resource for second and final year students of mathematics engineering and physics

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