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Classical Complex Analysis

Liang-Shin Hahn • Bernard Epstein

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Classical Complex Analysis

Thomas Griffiths

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power series gives the reader concrete examples of analytic functions and a review of calculus Mobius transformations are presented with emphasis on the geometric aspect and the Cauchy theorem is covered in the classical manner The remaining chapters provide an elegant and solid overview of special topics such as Entire and Meromorphic Functions Analytic Continuation Normal Families Conformal Mapping and Harmonic Functions **Classical Analysis in the Complex Plane** Robert B. Burckel,2021-10-11 This authoritative text presents the classical theory of functions of a single complex variable in complete mathematical and historical detail Requiring only minimal undergraduate level prerequisites it covers the fundamental areas of the subject with depth precision and rigor Standard and novel proofs are explored in unusual detail and exercises many with helpful hints provide ample opportunities for practice and a deeper understanding of the material In addition to the mathematical theory the author also explores how key ideas in complex analysis have evolved over many centuries allowing readers to acquire an extensive view of the subject s development Historical notes are incorporated throughout and a bibliography containing more than 2 000 entries provides an exhaustive list of both important and overlooked works Classical Analysis in the Complex Plane will be a definitive reference for both graduate students and experienced mathematicians alike as well as an exemplary resource for anyone doing scholarly work in complex analysis The author s expansive knowledge of and passion for the material is evident on every page as is his desire to impart a lasting appreciation for the subject I can honestly say that Robert Burckel s book has profoundly influenced my view of the subject of complex analysis It has given me a sense of the historical flow of ideas and has acquainted me with byways and ancillary results that I never would have encountered in the ordinary course of my work The care exercised in each of his proofs is a model of clarity in mathematical writing Anyone in the field should have this book on their bookshelves as a resource and an inspiration From the Foreword by Steven G Krantz **An introduction to classical complex analysis** Robert B. Burckel,1979 **An Introduction to Complex Analysis** Wolfgang Tutschke,Harkrishan L. Vasudeva,2004-06-25 Like real analysis complex analysis has generated methods indispensable to mathematics and its applications Exploring the interactions between these two branches this book uses the results of real analysis to lay the foundations of complex analysis and presents a unified structure of mathematical analysis as a whole To set the groundwork *Classical Topics in Complex Function Theory* Reinhold Remmert,2013-03-14 An ideal text for an advanced course in the theory of complex functions this book leads readers to experience function theory personally and to participate in the work of the creative mathematician The author includes numerous glimpses of the function theory of several complex variables which illustrate how autonomous this discipline has become In addition to standard topics readers will find Eisenstein s proof of Euler s product formula for the sine function Wielandts uniqueness theorem for the gamma function Stirlings formula Isssas theorem Besses proof that all domains in C are domains of holomorphy Wedderburns lemma and the ideal theory of rings of holomorphic functions Estermanns proofs of the overconvergence theorem and Blochs theorem a holomorphic imbedding of the unit disc in C3 and

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Complex Analysis Teodor Bulboacă,Santosh B. Joshi,Pranay Goswami,2019-07-08 This book is an in depth and modern presentation of important classical results in complex analysis and is suitable for a first course on the topic as taught by the authors at several universities The level of difficulty of the material increases gradually from chapter to chapter and each chapter contains many exercises with solutions and applications of the results with the particular goal of showcasing a variety of solution techniques **Complex Analysis** Lars Ahlfors,1979 A standard source of information of functions of one complex variable this text has retained its wide popularity in this field by being consistently rigorous without becoming needlessly concerned with advanced or overspecialized material Difficult points have been clarified the book has been reviewed for accuracy and notations and terminology have been modernized Chapter 2 Complex Functions features a brief section on the change of length and area under conformal mapping and much of Chapter 8 Global Analytic Functions has been rewritten in order to introduce readers to the terminology of germs and sheaves while still emphasizing that classical concepts are the backbone of the theory Chapter 4 Complex Integration now includes a new and simpler proof of the general form of Cauchy s theorem There is a short section on the Riemann zeta function showing the use of residues in a more exciting situation than in the computation of definite integrals

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