

Lars Ahlfors Complex Analysis Third Edition

Complex AnalysisComplex AnalysisCOMPLEX ANALYSISComplex AnalysisLectures in Memory of Lars AhlforsThe Ubiquitous
QuasidiskFields Medallists' Lectures, 2nd EditionFields Medallists' LecturesElliptic Partial Differential Equations and Quasiconformal
Mappings in the Plane (PMS-48)Nevanlinna's Theory of Value DistributionEncyclopedic Dictionary of MathematicsAnalytic
FunctionsQuasiconformal Teichmüller TheoryOuter CirclesComplex AnalysisNonlinear Analysis in Geometry and TopologyConformal
InvariantsScience and Its TimesConcise Complex Analysis (Revised Edition)World of Mathematics Lars Ahlfors Lars Valerian Ahlfors Lars
V. Ahlfors Lars V. Ahlfors Robert Brooks Frederick W. Gehring Michael Atiyah Daniel Iagolnitzer Kari Astala William Cherry Nihon
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Brigham Narins

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Science and Its Times Concise Complex Analysis (Revised Edition) World of Mathematics *Lars Ahlfors Lars Valerian Ahlfors Lars V. Ahlfors Lars
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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

this work presents lectures given by leading specialists on the work of lars ahlfors it comprises an overview of his essential contributions to complex analysis written from a modern perspective this volume bridges the gap between ahlfors achievements and contemporary developments

this book focuses on gathering the numerous properties and many different connections with various topics in geometric function theory that quasidisks possess a quasidisk is the image of a disk under a quasiconformal mapping of the riemann sphere in 1981 frederick w gehring gave a short course of six lectures on this topic in montreal and his lecture notes characteristic properties of quasidisks were published by the university press of the university of montreal the notes became quite popular and within the next decade the number of characterizing properties of quasidisks and their ramifications increased tremendously in the late 1990s gehring and hag decided to write an expanded version of the montreal notes at three times the size of the original notes it turned into much more than just an extended version new topics include two sided criteria the text will be a valuable resource for current and future researchers in various branches of analysis and geometry and with its clear and elegant exposition the book can also serve as a text for a graduate course on selected topics in function theory frederick w gehring 1925 2012 was a leading figure in the theory of quasiconformal mappings for over fifty years he received numerous awards and shared his passion for mathematics generously by mentoring twenty nine ph d students and more than forty postdoctoral fellows kari hag received her ph d under gehring s direction in 1972 and worked with him on the present text for more than a decade

although the fields medal does not have the same public recognition as the nobel prizes they share a similar intellectual standing it is restricted to one field that of mathematics and an age limit of 40 has become an accepted tradition mathematics has in the main been interpreted as pure mathematics and this is not so unreasonable since major contributions in some applied areas can be and have been recognized with nobel prizes a list of fields medallists and their contributions provides a bird s eye view of mathematics over the past 60 years it highlights the areas in which at various times greatest progress has been made this volume does not pretend to be comprehensive nor is it a historical document on the other hand it presents contributions from fields medallists and so provides a highly interesting and varied picture the second edition of

fields medallists lectures features additional contributions from the following medallists kunihiro kodaira 1954 richard e borcherds 1998 william t gowers 1998 maxim kontsevich 1998 curtis t mcmullen 1998 and vladimir voevodsky 2002

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this book explores the most recent developments in the theory of planar quasiconformal mappings with a particular focus on the interactions with partial differential equations and nonlinear analysis it gives a thorough and modern approach to the classical theory and presents important and compelling applications across a spectrum of mathematics dynamical systems singular integral operators inverse problems the geometry of mappings and the calculus of variations it also gives an account of recent advances in harmonic analysis and their applications in the geometric theory of mappings the book explains that the existence regularity and singular set structures for second order divergence type equations the most important class of pdes in applications are determined by the mathematics underpinning the geometry structure and dimension of fractal sets moduli spaces of riemann surfaces and conformal dynamical systems these topics are inextricably linked by the theory of quasiconformal mappings further the interplay between them allows the authors to extend classical results to more general settings for wider applicability providing new and often optimal answers to questions of existence regularity and geometric properties of solutions to nonlinear systems in both elliptic and degenerate elliptic settings

on the one hand this monograph serves as a self contained introduction to nevanlinna's theory of value distribution because the authors only assume the reader is familiar with the basics of complex analysis on the other hand the monograph also serves as a valuable reference for the research specialist because the authors present for the first time in book form the most modern and refined versions of the second main theorem with precise error terms in both the geometric and logarithmic derivative based approaches a unique feature of the monograph is its number theoretic digressions these special sections assume no background in number theory and explore the exciting interconnections between nevanlinna theory and the theory of diophantine approximation

v l a n v 2 o z appendices and indexes

a survey of recent developments both in the classical and modern fields of the theory contents include the complex analytic structure of the space of closed riemann surfaces complex analysis on noncompact riemann domains proof of the teichmüller ahlfors theorem the conformal mapping of riemann surfaces on certain coefficients of univalent functions compact analytic surfaces on differentiable mappings deformations of complex analytic manifolds originally published in 1960 the princeton legacy library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of princeton university press these editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions the goal of the princeton legacy library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by princeton university press since its founding in 1905

the teichmüller space $T(X)$ is the space of marked conformal structures on a given quasiconformal surface X this volume uses quasiconformal mapping to give a unified and up to date treatment of $T(X)$ emphasis is placed on parts of the theory applicable to noncompact surfaces and to surfaces possibly of infinite analytic type the book provides a treatment of deformations of complex structures on infinite riemann surfaces and gives background for further research in many areas these include applications to fractal geometry to three dimensional manifolds through its relationship to kleinian groups and to one dimensional dynamics through its relationship to quasisymmetric mappings many research problems in the application of function theory to geometry and dynamics are suggested

we live in a three dimensional space what sort of space is it can we build it from simple geometric objects the answers to such questions have been found in the last 30 years and outer circles describes the basic mathematics needed for those answers as well as making clear the grand design of the subject of hyperbolic manifolds as a whole the purpose of outer circles is to provide an account of the contemporary theory accessible to those with minimal formal background in topology hyperbolic geometry and complex analysis the text explains what is needed and provides the expertise to use the primary tools to arrive at a thorough understanding of the big picture this picture is further filled out by numerous exercises and expositions at the ends of the chapters and is complemented by a profusion of high quality illustrations there is an extensive bibliography for further study

most conformal invariants can be described in terms of extremal properties conformal invariants and extremal problems are therefore intimately linked and form together the central theme of this classic book which is primarily intended for students with approximately a year s

background in complex variable theory the book emphasizes the geometric approach as well as classical and semi classical results which lars ahlfors felt every student of complex analysis should know before embarking on independent research at the time of the book s original appearance much of this material had never appeared in book form particularly the discussion of the theory of extremal length schiffer s variational method also receives special attention and a proof of $\text{vert } 4 \text{ vert } \leq 4$ is included which was new at the time of publication the last two chapters give an introduction to riemann surfaces with topological and analytical background supplied to support a proof of the uniformization theorem included in this new reprint is a foreword by peter duren f w gehring and brad osgood as well as an extensive errata encompasses a wealth of material in a mere one hundred and fifty one pages its purpose is to present an exposition of selected topics in the geometric theory of functions of one complex variable which in the author s opinion should be known by all prospective workers in complex analysis from a methodological point of view the approach of the book is dominated by the notion of conformal invariant and concomitantly by extremal considerations it is a splendid offering reviewed for math reviews by m h heins in 1975

this series discusses how the major fields of science developed during specific time periods each volume focuses on a range of years and includes developments in exploration life sciences mathematics physical sciences and technology when the series is completed the seven volumes will cover 2000 b c to the present outstanding reference sources american libraries may 2001

a concise textbook on complex analysis for undergraduate and graduate students this book is written from the viewpoint of modern mathematics the bar partial equation differential geometry lie groups all the traditional material on complex analysis is included setting it apart from others the book makes many statements and proofs of classical theorems in complex analysis simpler shorter and more elegant for example the mittag leffer theorem is proved using the bar partial equation and the picard theorem is proved using the methods of differential geometry

presents over 1 000 entries covering theories discoveries concepts and definitions and includes biographical entries on prominent mathematicians from antiquity to the present

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