Lars Ahlfors Complex Analysis Third Edition

Complex AnalysisComplex AnalysisComplex AnalysisCOMPLEX ANALYSISComplex AnalysisConformal InvariantsFields Medallists' Lectures, 2nd EditionFields Medallists' LecturesLectures in Memory of Lars AhlforsAnalytic FunctionsGeometric Function Theory and Non-linear AnalysisGeometric Analysis and Function SpacesFractal Geometry and AnalysisSampling, Approximation, and Signal AnalysisSeminars in Complex Analysis and Geometry 1988Further Progress in AnalysisFurther Progress In Analysis - Proceedings Of The 6th International Isaac CongressScience and Its TimesComplex AnalysisReviews in Complex Analysis, 1980-86 Lars Ahlfors Lars Valerian Ahlfors Lars V. Ahlfors Lars V. Ahlfors Lars Valerian Ahlfors Lars Valerian Ahlfors Michael Atiyah Daniel Iagolnitzer Robert Brooks Lars Valerian Ahlfors Tadeusz Iwaniec Steven George Krantz Jacques Bélair Stephen D. Casey Jacques Guenot International Society for Analysis, Applications, and Computation. Congress A Okay Celebi Neil Schlager

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

the back up contains a draft of the title page copyright page toc and preface do not include this in the cip record

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 $\vert a_4 \vert \leq 4$ 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

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 kunihiko 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 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

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 teichmuller

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

this unique book explores the connections between the geometry of mappings and many important areas of modern mathematics such as harmonic and non linear analysis the theory of partial differential equations conformal geometry and topology much of the book is new it aims to provide students and researchers in many areas with a comprehensive and up to date account and an overview of the subject as a whole

this book brings into focus the synergistic interaction between analysis and geometry by examining a variety of topics in function theory real analysis harmonic analysis several complex variables and group actions krantz s approach is motivated by examples both classical and modern which highlight the symbiotic relationship between analysis and geometry creating a synthesis among a host of different topics this book is useful to researchers in geometry and analysis and may be of interest to physicists astronomers and engineers in certain areas the book is based on lectures presented at an nsf cbms regional conference held in may 1992

this asi which was also the 28th session of the seminaire de mathematiques superieures of the universite de montreal was devoted to fractal geometry and analysis the present volume is the fruit of the work of this advanced study institute we were fortunate to have with us prof benoit mandelbrot the creator of numerous concepts in fractal geometry who gave a series of lectures on multifractals iteration of analytic functions and various kinds of fractal stochastic processes different foundational

contributions for fractal geometry like measure theory dy namical systems iteration theory branching processes are recognized the geometry of fractal sets and the analytical tools used to investigate them provide a unifying theme of this book the main topics that are covered are then as follows dimension theory many definitions of fractional dimension have been proposed all of which coincide on regular objects but often take different values for a given fractal set there is ample discussion on piecewise estimates yielding actual values for the most common dimensions hausdorff box counting and packing dimensions the dimension theory is mainly discussed by mendes france bedford falconer tricot and rata construction of fractal sets scale in variance is a fundamental property of fractal sets

during his long and distinguished career j rowland higgins 1935 2020 made a substantial impact on many mathematical fields through his work on sampling theory his deep knowledge of its history and his service to the community this volume is a tribute to his work and legacy featuring chapters written by distinguished mathematicians that explore cutting edge research in sampling approximation signal analysis and other related areas an introductory chapter provides a biography of higgins that explores his rich and unique life along with a bibliography of his papers a brief history of the sampta meetings of which he was a founding member is also included the remaining articles are grouped into four sections classical sampling theoretical extensions frame theory and applications of sampling theory and explore higgins contributions to these areas as well as some of the latest developments

the isaac international society for analysis its applications and computation congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years in this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields this volume concentrates on partial differential equations function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations inverse problems functional differential and difference equations and integrable systems

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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

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