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Allu Vasudevarao*

# UNIVALENT FUNCTIONS

A PRIMER

STUDIES IN MATHEMATICS 69



# Univalent Functions

**THEODORE GAMELIN**



## Univalent Functions:

*Univalent Functions* Derek K. Thomas, Nikola Tuneski, Allu Vasudevarao, 2018-04-09 The study of univalent functions dates back to the early years of the 20th century and is one of the most popular research areas in complex analysis This book is directed at introducing and bringing up to date current research in the area of univalent functions with an emphasis on the important subclasses thus providing an accessible resource suitable for both beginning and experienced researchers

Contents Univalent Functions the Elementary Theory Definitions of Major Subclasses Fundamental Lemmas Starlike and Convex Functions Starlike and Convex Functions of Order Strongly Starlike and Convex Functions Alpha Convex Functions Gamma Starlike Functions Close to Convex Functions Bazilevi Functions B1 Bazilevi Functions The Class U Convolutions Meromorphic Univalent Functions Loewner Theory Other Topics Open Problems

*Univalent Functions, Fractional Calculus, and Their Applications* H. M. Srivastava, Shigeyoshi Owa, 1989

*Univalent Functions and Teichmüller Spaces* O. Lehto, 2012-12-06 This monograph grew out of the notes relating to the lecture courses that I gave at the University of Helsinki from 1977 to 1979 at the Eidgenössische Technische Hochschule Zurich in 1980 and at the University of Minnesota in 1982 The book presumably would never have been written without Fred Gehring's continuous encouragement Thanks to the arrangements made by Edgar Reich and David Storvick I was able to spend the fall term of 1982 in Minneapolis and do a good part of the writing there Back in Finland other commitments delayed the completion of the text At the final stages of preparing the manuscript I was assisted first by Mika Seppala and then by Jouni Luukkainen who both had a grant from the Academy of Finland I am greatly indebted to them for the improvements they made in the text I also received valuable advice and criticism from Kari Astala Richard Fehlmann Barbara Flinn Fred Gehring Pentti Jarvi Irwin Kra Matti Lehtinen Ilppo Louhivaara Bruce Palka Kurt Strebel Kalevi Suominen Pekka Tukia and Kalle Virtanen To all of them I would like to express my gratitude Raili Pauninsalo deserves special thanks for her patience and great care in typing the manuscript Finally I thank the editors for accepting my text in Springer Verlag's well known series Helsinki Finland June 1986 Olli Lehto

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*Univalent Functions - Selected Topics* G. Schober, 2006-11-14

[Univalent Functions and Conformal Mapping](#) James Allister Jenkins, 2013-11-11 This monograph deals with the application of the method of the extremal metric to the theory of univalent functions Apart from an introductory chapter in which a brief survey of the development of this theory is given there is therefore no attempt to follow up other methods of treatment Nevertheless such is the power of the present method that it is possible to include the great majority of known results on univalent functions It should be mentioned also that the discussion of the method of the extremal metric is directed toward its application to univalent functions there being no space to present its numerous other applications particularly to questions of quasiconformal mapping Also it should be said that there has been no attempt to provide an exhaustive bibliography reference normally being confined to those sources actually quoted in the text The central theme of our work is the General

Coefficient Theorem which contains as special cases a great many of the known results on univalent functions In a final chapter we give also a number of applications of the method of symmetrization At the time of writing of this monograph the author has been receiving support from the National Science Foundation for which he wishes to express his gratitude His thanks are due also to Sister BARBARA ANN Foos for the use of notes taken at the author's lectures in Geometric Function Theory at the University of Notre Dame in 1955 1956

**Geometric Theory of Functions of a Complex Variable**  
 Gennadii Mikhaïlovich Goluzin, 1969 **The Theory of Extremal Problems for Univalent Functions of Class S**  
 Konstantin Ivanovich Babenko, 1975 Discusses univalent functions and extremal problems Univalent Functions and Conformal Mapping James A. Jenkins, 2012-12-06 This monograph deals with the application of the method of the extremal metric to the theory of univalent functions Apart from an introductory chapter in which a brief survey of the development of this theory is given there is therefore no attempt to follow up other methods of treatment Nevertheless such is the power of the present method that it is possible to include the great majority of known results on univalent functions It should be mentioned also that the discussion of the method of the extremal metric is directed toward its application to univalent functions there being no space to present its numerous other applications particularly to questions of quasiconformal mapping Also it should be said that there has been no attempt to provide an exhaustive bibliography reference normally being confined to those sources actually quoted in the text The central theme of our work is the General Coefficient Theorem which contains as special cases a great many of the known results on univalent functions In a final chapter we give also a number of applications of the method of symmetrization At the time of writing of this monograph the author has been receiving support from the National Science Foundation for which he wishes to express his gratitude His thanks are due also to Sister BARBARA ANN Foos for the use of notes taken at the author's lectures in Geometric Function Theory at the University of Notre Dame in 1955 1956

Handbook of Complex Analysis Reiner Kuhnau, 2002-12-05 Geometric Function Theory is a central part of Complex Analysis one complex variable The Handbook of Complex Analysis Geometric Function Theory deals with this field and its many ramifications and relations to other areas of mathematics and physics The theory of conformal and quasiconformal mappings plays a central role in this Handbook for example a priori estimates for these mappings which arise from solving extremal problems and constructive methods are considered As a new field the theory of circle packings which goes back to P Koebe is included The Handbook should be useful for experts as well as for mathematicians working in other areas as well as for physicists and engineers A collection of independent survey articles in the field of Geometric Function Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including many hints to applications in electrostatics heat conduction potential flows in the plane

Univalent Functions and Orthonormal Systems Isaak Moiseevich Milin, 1977 Complex Analysis THEODORE GAMELIN, 2003-07-17 An introduction to complex analysis for students with some knowledge of complex numbers from high

school It contains sixteen chapters the first eleven of which are aimed at an upper division undergraduate audience The remaining five chapters are designed to complete the coverage of all background necessary for passing PhD qualifying exams in complex analysis Topics studied include Julia sets and the Mandelbrot set Dirichlet series and the prime number theorem and the uniformization theorem for Riemann surfaces with emphasis placed on the three geometries spherical euclidean and hyperbolic Throughout exercises range from the very simple to the challenging The book is based on lectures given by the author at several universities including UCLA Brown University La Plata Buenos Aires and the Universidad Autonoma de Valencia Spain

Encyclopaedia of Mathematics Michiel Hazewinkel,1993-01-31 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

**Univalent Functions-selected Topics** Glenn Schober,1975-01-01 *Univalent functions* Christian Pommerenke,Gerd Jensen,1975

**Univalent Functions and Orthonormal Systems** Isaak Moiseevich Milin,1977 *Advances in Algebra and Analysis* V. Madhu,A. Manimaran,D. Easwaramoorthy,D. Kalpanapriya,M. Mubashir Unnissa,2019-01-23 This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences Vellore India December 2017 Volume I This meeting brought together researchers from around the world to share their work with the aim of promoting collaboration as a means of solving various problems in modern science and engineering The authors of each chapter present a research problem techniques suitable for solving it and a discussion of the results obtained These volumes will be of interest to both theoretical and application oriented individuals in academia and industry Papers in Volume I are dedicated to active and open areas of research in algebra analysis operations research and statistics and those of Volume II consider differential equations fluid mechanics and graph theory

Mathematical Analysis and Numerical Methods Aliaa Burqan,Rania Saadeh,Ahmad Qazza,Osama Yusuf Ababneh,Juan C. Cortés,Kai

Diethelm, Dia Zeidan, 2024-10-05 This book presents a thoughtful compilation of chapters derived from the proceedings of the 8th International Arab Conference on Mathematics and Computations IACMC 2023 held at Zarqa University in Zarqa Jordan from 10-12 May 2023. Encompassing a broad spectrum of themes crucial to contemporary research and development, the book delved into subjects ranging from partial and differential equations to fractional calculus, from probability and statistics to graph theory and from approximation theory to nonlinear dynamics. Moreover, it explores pivotal areas such as numerical analysis and methods, as well as fostering interdisciplinary mathematical research initiatives. Building upon the legacy of its predecessors, IACMC 2023 served as a premier platform for scholars, researchers, and industry professionals to converge and exchange insights on a myriad of cutting-edge advancements and practical applications within the realm of mathematical sciences. This volume encapsulates the essence of IACMC 2023, offering readers a comprehensive overview of the latest breakthroughs and trends in mathematical sciences while serving as a testament to the collaborative spirit and intellectual vigor that define this esteemed conference series.

**Univalent Functions and Optimal Control** Gerald Spencer  
Goodman, 1968     *Special Topics in Univalent Functions* Dov Aharonov, 1971     **Extremum Problems for Bounded**  
**Univalent Functions II** Olli Tammi, 1982-03

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