

# Graduate Texts in Mathematics

**Alan F. Beardon**

## **Iteration of Rational Functions**



Springer

# Iteration Of Rational Functions

**David Simmons**



## Iteration Of Rational Functions:

**Iteration of Rational Functions** Alan F. Beardon, 2000-10-11 This book focuses on complex analytic dynamics which dates from 1916 and is currently attracting considerable interest The text provides a comprehensive well organized treatment of the foundations of the theory of iteration of rational functions of a complex variable The coverage extends from early memoirs of Fatou and Julia to important recent results and methods of Sullivan and Shishikura Many details of the proofs have not appeared in print before Iteration of Rational Functions of One Complex Variable and Basins of Attractive Fixed Points Gregg Willard Saunders, 1984 **On the Iteration of Rational Functions** Joseph Fels Ritt, 1920\* Random Iteration of Rational Functions David Simmons, 2012 **Rational Iteration** Norbert Steinmetz, 2011-07-22 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob The Iteration of Rational Functions and Their Julian Sets Chrystina M. Howard, 1994 Random Iteration of Rational Functions Simmons David, 2014-01 The goal of this book is to study the ergodic theory of holomorphic random dynamical systems on the Riemann sphere Specifically the main results are two generalizations of a theorem of Denker and Urbanski 91 concerning existence and uniqueness of equilibrium states of rational functions with respect to Holder continuous potential functions satisfying a pressure gap condition The main results also generalize a theorem of Jonsson 00

**Invariant Sets Under Iteration of Rational Functions** Hans Brodin, 1965 Optimal Starting Approximations for Iterative Schemes from Classes of Rational Functions John Bryon Gibson, 1971 **Leningrad Mathematical Journal**, 1990 Journal of mathematics of Kyoto University Kyōto Daigaku, 1961 **A Geometric Convergence Theory for the QR, Rayleigh Quotient, and Power Iterations** William George Poole, 1970 **Functional Equations in a Single Variable** Marek Kuczma, 1968 **Computational Methods and Function Theory**, 2008 Holomorphic Functions and Moduli I D. Drasin, C.J. Earle, F.W. Gehring, I. Kra, A. Marden, 2012-12-06 The Spring 1986 Program in Geometric Function Theory GFT at

the Mathematical Sciences Research Institute MSRI brought together mathematicians interested in Teichmüller theory, quasiconformal mappings, Kleinian groups, univalent functions, and value distribution. It included a large and stimulating Workshop preceded by a mini conference on String Theory attended by both mathematicians and physicists. These activities produced interesting results and fruitful interactions among the participants. These volumes represent only a portion of the papers that will eventually result from ideas developed in the offices and corridors of MSRI's elegant home. The Editors solicited contributions from all participants in the Program whether or not they gave a talk at the Workshop. Papers were also submitted by mathematicians invited but unable to attend. All manuscripts were refereed. The articles included here cover a broad spectrum representative of the activities during the semester. We have made an attempt to group them by subject for the reader's convenience. The Editors take pleasure in thanking all participants, authors, and referees for their work in producing these volumes. We are also grateful to the Scientific Advisory Council of MSRI for supporting the Program in GFT. Finally, thanks are due to the National Science Foundation and those Universities including Cornell, Michigan, Minnesota, Rutgers, Newark, SUNY Stony Brook, who gave released time to faculty members to participate for extended periods in this program.

**Mathematics of Computation**, 1978. Original articles on all aspects of numerical mathematics, book reviews, mathematical tables, and technical notes. Covers advances in numerical analysis, application of computer methods, high speed calculating, and other aids to computation. *Bulletin (new Series) of the American Mathematical Society*, 1993.

**Invariant sets under iteration of rational functions** Hans Brolin, 1965. *Iterative Methods for the Solution of Equations* Joseph Frederick Traub, 1964. *Bulletin of the American Mathematical Society*, 1993.

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