

# Discrete Iterated Function Systems

Number Systems, Iterated Function Systems and Fractals  
Fractals and Iterated Function Systems  
The Global Structure of Iterated Function Systems  
Fractals Via Iterated Function Systems  
Iterated Function Systems, the Deterministic Algorithm, Fractals, Dimensions and Modeling Real Trees  
Iterated Function Systems  
Step-wise Adjustable Iterated Function Systems  
Iterated Function Systems, Moments, and Transformations of Infinite Matrices  
Hyperbolic Iterated Function Systems, Fractals, and Fractal Dimension  
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Course Notes  
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Tad E. Womack Bernd Kieninger Scott M. Davidson Mary Catherine McKinley Kimberly Ann Yeaton  
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fractals have caught the attention of the public over the last few decades with their often beautiful colors or naturalistic look however the math underlying the beautiful images has not become as mainstream even though the classical ways to generate fractals using moran sets or iterated function systems ifs is relatively straightforward in this thesis we start with some common examples and ways to generate fractals as well as the common measures and dimensions used to analyze fractals we then present a new process that mixes the moran set and ifs generating techniques by allowing the generating process to be updated at each iteration which produces non self similar fractals with more variation but does not change the computational complexity when compared to a standard ifs construction we then provide estimates and calculations for the hausdorff dimension of the new fractals generated from this process

fractal theory is certainly one of the most dynamical fields in mathematics the most amazing thing about fractals is the variety of their applications in dynamical systems physics quantum mechanics computer graphics astronomy biology chemistry medicine telecommunications arts and others iterated function systems ifss are the main generators of fractals in this book we provide an extension of the well known hutchinson barnsley theory of finite ifs to countable ifs cifs after a review of the basic properties of ifss we described the features of cifs related to the attractor hausdorff dimension self similarity hutchinson measure fractal interpolation continuous dependence on parameter some generalizations and a modern approach of ifss and cifs are also investigated this book is written in a rigorous but accessible self contained manner several examples are given with the aim to offer a better understanding of the theory the book is useful for mathematicians students researchers postgraduates physicians and other specialists which are interested in studying the fractals produced by an iterative process

the papers in this volume reflect the richness and diversity of the subject of dynamics some are lectures given at the three conferences ergodic theory and topological dynamics symbolic dynamics and coding theory and smooth dynamics dynamics and applied dynamics held in maryland between october 1986 and march 1987 some are work which was in progress during the special year and some are work which was done because of questions and problems raised at the conferences in addition a paper of john milnor and william thurston versions of which had been available as notes but not yet published is included

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