Discrete Iterated Function Systems

Number Systems, Iterated Function Systems and FractalsIterated Function Systems on Compact Hausdorff SpacesIterated Function Systems and Permutation Representations of the Cuntz AlgebraIterated Function Systems, Moments, and Transformations of Infinite MatricesIterated Function Systems, the Deterministic Algorithm, Fractals, Dimensions and Modeling Real TreesStep-wise Adjustable Iterated Function SystemsIterated Function SystemsFractals and Iterated Function SystemsLinear and Markov Iterated Function Systems in Fractal GeometryIterated Function SystemsDiscrete Iterated Function SystemsThe Global Structure of Iterated Function SystemsFractals Via Iterated Function SystemsHyperbolic Iterated Function Systems, Fractals, and Fractal DimensionFractals in MultimediaRendering and Magnification of Fractals Using Iterated Function SystemsDiscrete Iterated Function SystemsFractal Shapes Generated by Iterated Function SystemsFractals, Dimension, and Iterated Function SystemsA First Course In Chaotic Dynamical Systems Fei-Ye Yew Bernd Kieninger Ola Bratteli Palle E. T. Jørgensen David Wayne Joyce Tynan Cody Lazarus Kimberly Ann Yeaton Joseph William Simons Tad E. Womack Amy Keistler Mario Peruggia Jun Wu Julian Allen Brooks Michael F. Barnsley Laurie Hodges Reuter Mario Peruggia Mary Catherine McKinley Scott M. Davidson Robert L. Devaney

this book is intended for graduate students and research mathematicians working in functional analysis

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

written for researchers and developers applying integrated function systems in the creation of fractal images this book presents a modification of a widely used probabilistic algorithm for generating ifs encoded images the book also includes a discussion of how ifs techniques can be applied to produce animated motion pictures

this ima volume in mathematics and its applications fractals in multimedia is a result of a very successful three day minisymposium on the same title the event was an integral part of the ima annual program on mathemat ics in multimedia 2000 2001 we would like to thank michael f barnsley department of mathematics and statistics university of melbourne di etmar saupe institut fur informatik universiuit leipzig and edward r vrscay department of applied mathematics university of waterloo for their excellent work as organizers of the meeting and for editing the proceedings we take this opportunity to thank the national science foundation for their support of the ima series editors douglas n arnold director of the ima fadil santosa deputy director of the ima v preface this volume grew out of a meeting on fractals in multimedia held at the ima in january 2001 the meeting was an exciting and intense one focused on fractal image compression analysis and synthesis iterated function systems and fractals in education the central concerns of the meeting were to establish within these areas where we are now and to develop a vision for the future

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a first course in chaotic dynamical systems theory and experiment second edition the long anticipated

revision of this well liked textbook offers many new additions in the twenty five years since the original version of this book was published much has happened in dynamical systems mandelbrot and julia sets were barely ten years old when the first edition appeared and most of the research involving these objects then centered around iterations of quadratic functions this research has expanded to include all sorts of different types of functions including higher degree polynomials rational maps exponential and trigonometric functions and many others several new sections in this edition are devoted to these topics the area of dynamical systems covered in a first course in chaotic dynamical systems theory and experiment second edition is quite accessible to students and also offers a wide variety of interesting open questions for students at the undergraduate level to pursue the only prerequisite for students is a one year calculus course no differential equations required students will easily be exposed to many interesting areas of current research this course can also serve as a bridge between the low level often non rigorous calculus courses and the more demanding higher level mathematics courses features more extensive coverage of fractals including objects like the sierpinski carpet and others that appear as julia sets in the later sections on complex dynamics as well as an actual chaos game more detailed coverage of complex dynamical systems like the quadratic family and the exponential maps new sections on other complex dynamical systems like rational maps a number of new and expanded computer experiments for students to perform about the author robert l devaney is currently professor of mathematics at boston university he received his phd from the university of california at berkeley under the direction of stephen smale he taught at northwestern university and tufts university before coming to boston university in 1980 his main area of research is dynamical systems primarily complex analytic dynamics but also including more general ideas about chaotic dynamical systems lately he has become intrigued with the incredibly rich topological aspects of dynamics including such things as indecomposable continua sierpinski curves and cantor bouquets

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