

THE UNIVERSAL MANDELBROT SET

Beginning of the Story

V Dolotin 🏓 A Morozov

Universal Mandelbrot Set Beginning Of The Story

Valeri? Valer?evich Dolotin,Al?bert Dmitrievich Morozov

Universal Mandelbrot Set Beginning Of The Story:

The Universal Mandelbrot Set V. Dolotin. Al?bert Dmitrievich Morozov. 2006 This book is devoted to the structure of the Mandelbrot set OCo a remarkable and important feature of modern theoretical physics related to chaos and fractals and simultaneously to analytical functions Riemann surfaces phase transitions and string theory The Mandelbrot set is one of the bridges connecting the world of chaos and order The authors restrict consideration to discrete dynamics of a single variable This restriction preserves the most essential properties of the subject but drastically simplifies computer simulations and the mathematical formalism The coverage includes a basic description of the structure of the set of orbits and pre orbits associated with any map of an analytic space into itself A detailed study of the space of orbits the algebraic Julia set as a whole together with related attributes is provided Also covered are moduli space in the space of maps and the classification problem for analytic maps the relation of the moduli space to the bifurcations topology changes of the set of orbits a combinatorial description of the moduli space Mandelbrot and secondary Mandelbrot sets and the corresponding invariants discriminants and resultants and the construction of the universal discriminant of analytic functions in terms of series coefficients The book concludes by solving the case of the quadratic map using the theory and methods discussed earlier Sample Chapter's Chapter 1 Introduction 219 KB Contents Notions and Notation Summary Fragments of Theory Map f x X 2 c From Standard Example to General Conclusions Readership Researchers and students in algebra number theory and Universal Mandelbrot Set, The: Beginning Of The Story Alexei Morozov, Valery mathematical physics Dolotin, 2006-10-09 This book is devoted to the structure of the Mandelbrot set a remarkable and important feature of modern theoretical physics related to chaos and fractals and simultaneously to analytical functions Riemann surfaces phase transitions and string theory The Mandelbrot set is one of the bridges connecting the world of chaos and order The authors restrict consideration to discrete dynamics of a single variable This restriction preserves the most essential properties of the subject but drastically simplifies computer simulations and the mathematical formalism. The coverage includes a basic description of the structure of the set of orbits and pre orbits associated with any map of an analytic space into itself A detailed study of the space of orbits the algebraic Julia set as a whole together with related attributes is provided Also covered are moduli space in the space of maps and the classification problem for analytic maps the relation of the moduli space to the bifurcations topology changes of the set of orbits a combinatorial description of the moduli space Mandelbrot and secondary Mandelbrot sets and the corresponding invariants discriminants and resultants and the construction of the universal discriminant of analytic functions in terms of series coefficients. The book concludes by solving the case of the quadratic map using the theory and methods discussed earlier The Universal Mandelbrot Set Valeri? Valer?evich Dolotin, Al?bert Dmitrievich Morozov, 2006 Direct look at the celebrated chaotic Mandelbrot Set in Fig 1 immediately reveals that it is a collection of almost ideal circles and cardioids unified in a specific forest structure. In the paper arXiv hep th

0501235 a systematic algebro geometric approach was developed to the study of generic Mandelbrot sets but emergency of nearly ideal circles in the special case of the family x2 c was not fully explained In the present paper the shape of the elementary constituents of Mandelbrot Set is explicitly calculated and difference between the shapes of root and descendant domains cardioids and circles respectively is explained Such qualitative difference persists for all other Mandelbrot sets descendant domains always have one less cusp than the root ones Details of the phase transition between different Mandelbrot sets are explicitly demonstrated including overlaps between elementary domains and dynamics of attraction repulsion regions Explicit examples of three dimensional sections of Universal Mandelbrot Set are given Also a systematic small size approximation is developed for evaluation of various Feigenbaum indices Publisher's website Riemann Zeros Michel Laurent Lapidus, 2008 Formulated in 1859 the Riemann Hypothesis is the most celebrated and multifaceted open problem in mathematics In essence it states that the primes are distributed as harmoniously as possible or equivalently that the Riemann zeros are located on a single vertical line called the critical line **Introduction To** Non-linear Algebra Alexei Morozov, Valery Dolotin, 2007-10-02 This unique text presents the new domain of consistent non linear counterparts for all basic objects and tools of linear algebra and develops an adequate calculus for solving non linear algebraic and differential equations It reveals the non linear algebraic activity as an essentially wider and diverse field with its own original methods of which the linear one is a special restricted case This volume contains a detailed and comprehensive description of basic objects and fundamental techniques arising from the theory of non linear equations which constitute the scope of what should be called non linear algebra. The objects of non linear algebra are presented in parallel with the corresponding linear ones followed by an exposition of specific non linear properties treated with the use of classical such as the Koszul complex and original new tools This volume extensively uses a new diagram technique and is enriched with a variety of illustrations throughout the text Thus most of the material is new and is clearly exposed starting from the elementary level With the scope of its perspective applications spreading from general algebra to mathematical physics it will interest a broad audience of physicists mathematicians as well as advanced undergraduate and graduate students Fractal Analysis: Basic Concepts And Applications Carlo Cattani, Anouar Ben Mabrouk, Sabrine Arfaoui, 2022-02-24 The aim of this book is to provide a basic and self contained introduction to the ideas underpinning fractal analysis The book illustrates some important applications issued from real data sets real physical and natural phenomena as well as real applications in different fields and consequently presents to the readers the opportunity to implement fractal analysis in their specialties according to the step by step guide found in the book Besides advanced undergraduate students graduate students and senior researchers this book may also serve scientists and research workers from industrial settings where fractals and multifractals are required for modeling real world phenomena and data such as finance medicine engineering transport images signals among others For the theorists rigorous mathematical developments are established with necessary

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Riemannian geometry with the corresponding tools from nonlinear tensor algebra and analysis The extreme nonlinearity chaos corresponds to the topology change of this curved geometrical stage usually called configuration manifold Chapter 3 elaborates on geometry and topology change in relation with complex nonlinearity and chaos Chapter 4 develops general nonlinear dynamics continuous and discrete deterministic and stochastic in the unique form of path integrals and their action amplitude formalism This most natural framework for representing both phase transitions and topology change starts with Feynman's sum over histories to be quickly generalized into the sum over geometries and topologies. The last Chapter puts all the previously developed techniques together and presents the unified form of complex nonlinearity. Here we have chaos phase transitions geometrical dynamics and topology change all working together in the form of path integrals. The objective of this book is to provide a serious reader with a serious scientific tool that will enable them to actually perform a competitive research in modern complex nonlinearity. It includes a comprehensive bibliography on the subject and a detailed index Target readership includes all researchers and students of complex nonlinear systems in physics mathematics engineering chemistry biology psychology sociology economics medicine etc working both in industry clinics and academia

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