Record Nr.	UNINA9910458462303321		
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Titolo	The universal mandelbrot set [[electronic resource]] : beginning of the story / / V. Dolotin, A. Morozov		
Pubbl/distr/stampa	Hackensack, NJ, : World Scientiific Pub., c2006		
ISBN	1-281-92469-5 9786611924690 981-277-335-5		
Descrizione fisica	1 online resource (176 p.)		
Altri autori (Persone)	MorozovA. D <1944-> (Albert Dmitrievich)		
Disciplina	514/.742		
Soggetti	Mandelbrot sets Electronic books.		
Lingua di pubblicazione	Indese		
Formato	Materiale a stampa		
Livello bibliografico	Monografia		
Note generali	Description based upon print version of record.		
Nota di bibliografia	Includes bibliographical references (p. 161-162).		
Nota di contenuto	Contents; Preface; 1. Introduction; 2.Notions and notation; 2.1 Objects associated withthe space X; 2.2 Objects associated withthe space M; 2.3 Combinatorial objects; 2.4 Relations between the notions; 3.Summary; 3.1 Orbits and grand orbits3.2 Mandelbrot sets3.2.2 Relation to resultantsand discriminants; 3.2.3 Relation to resultantsand discriminants; 3.2.4 Critical points andlocations of elementary domains; 3.2.4 Critical points andlocations of elementary domains; 3.2.5 Perturbation theory and approximate self-similarity ofMandelbrot set;3.2.6 Trails in the forest;3.3 Sheaf of Julia sets over moduli space;4. Fragments of theory; 4.1 Orbits and reductiontheory of iterated maps; 4.2Bifurcations and discriminants: from real to complex; 4.3 Discriminants and resultants for iterated maps; 4.4 Period-doubling and beyond4.5 Stability and Mandelbrot set4.6 Towards		
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	the theory of Julia sets and algebraic Julia sets algebraic to ordinary Julia set Bifurcations of Julia set analysis for grand orbits 4.7.2 Irreducible constituents of discrim	; 4.6.1 Grand orbits ; 4.6.2 From ; 4.6.3 ; 4.7 On discriminant	
	4.7.6 Summary ; 4.7.7 On interpretation of wntk ; 4.8 Combinatorics of discriminants and resultants		
	; 4.9 Shapes of Julia and Mandelbrot s 4.9.1 Generalities 4.9.2 Exact statements about 1-parame power-d	ets ;	
Sommario/riassunto	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 <i>discrete</i> dynamics <i>of a single variable</i> . This restriction preserves the most essential properties of the subject, but drastically simplifies computer simulations and the mathematical formalism. The coverage		