1. Record Nr. UNISA996466630603316

Autore	Mayer Volker
Titolo	Distance Expanding Random Mappings, Thermodynamical Formalism, Gibbs Measures and Fractal Geometry [[electronic resource] /] / by Volker Mayer, Bartlomiej Skorulski, Mariusz Urbanski
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Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2036
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Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 2 Expanding Random Maps -- 3 The RPF–theorem -- 4 Measurability, Pressure and Gibbs Condition -- 5 Fractal Structure of Conformal Expanding Random Repellers -- 6 Multifractal Analysis -- 7 Expanding in the Mean -- 8 Classical Expanding Random Systems -- 9 Real Analyticity of Pressure.
Sommario/riassunto	The theory of random dynamical systems originated from stochastic differential equations. It is intended to provide a framework and techniques to describe and analyze the evolution of dynamical systems when the input and output data are known only approximately, according to some probability distribution. The development of this field, in both the theory and applications, has gone in many directions. In this manuscript we introduce measurable expanding random dynamical systems, develop the thermodynamical formalism and establish, in particular, the exponential decay of correlations and analyticity of the expected pressure although the spectral gap property does not hold. This theory is then used to investigate fractal properties of conformal random systems. We prove a Bowen’s formula and develop the multifractal formalism of the Gibbs states. Depending on the behavior of the Birkhoff sums of the pressure function we arrive at

	a natural classification of the systems into two classes: quasi-deterministic systems, which share many properties of deterministic ones; and essentially random systems, which are rather generic and never bi-Lipschitz equivalent to deterministic systems. We show that in the essentially random case the Hausdorff measure vanishes, which refutes a conjecture by Bogenschutz and Ochs. Lastly, we present applications of our results to various specific conformal random systems and positively answer a question posed by Bruck and Buger concerning the Hausdorff dimension of quadratic random Julia sets.

2. Record Nr. UNISA996384310903316

Autore	Owen Thomas <1557-1618.>
Titolo	The copie of a letter sent from Paris to the reverend fathers of the Society of Iesus, who liue in England [[electronic resource]] : Containing an answere to the calumniations of the Anti-Coton against the same Society in generall, and Fa. Coton in particular
Pubbl/distr/stampa	[Saint-Omer, : English College Press] Permissu superiorum, Anno M.DC. XI. [1611]
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