

1. Record Nr.	UNINA9910788855103321
Autore	Kigami Jun
Titolo	Volume doubling measures and heat kernel estimates on self-similar sets // Jun Kigami
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2009 ©2009
ISBN	1-4704-0538-5
Descrizione fisica	1 online resource (110 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 199, Number 932
Disciplina	515.42
Soggetti	Measure theory Fractals Self-similar processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 199, Number 932 (third of 6 numbers)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Prologue""; ""0.1. Introduction""; ""0.2. the Unit square""; ""Chapter 1. Scales and Volume Doubling Property of Measures""; ""1.1. Scale""; ""1.2. Self-similar structures and measures""; ""1.3. Volume doubling property""; ""1.4. Locally finiteness and gentleness""; ""1.5. Rationally ramified self-similar sets 1""; ""1.6. Rationally ramified self-similar sets 2""; ""1.7. Examples""; ""Chapter 2. Construction of Distances""; ""2.1. Distances associated with scales""; ""2.2. Intersection type""; ""2.3. Qdistances adapted to scales"" ""Chapter 3. Heat Kernel and Volume Doubling Property of Measures"" 3.1. Dirichlet forms on self-similar sets""; ""3.2. Heat kernel estimate""; ""3.3. P.c.f. self-similar sets""; ""3.4. Sierpinski carpets""; ""3.5. Proof of Theorem 3.2.3""; ""Appendix""; ""A. Existence and continuity of a heat kernel""; ""B. Recurrent case and resistance form""; ""C. Heat kernel estimate to the volume doubling property""; ""Bibliography""; ""Assumptions, Conditions and Properties in Parentheses""; ""List of Notations""; ""Index""; ""A""; ""C""; ""D""; ""E""; ""G""; ""H""; ""I""; ""K""; ""L""; ""M""; ""N"" ""P""""Q""; ""R""; ""S""; ""U""; ""V""; ""W""

