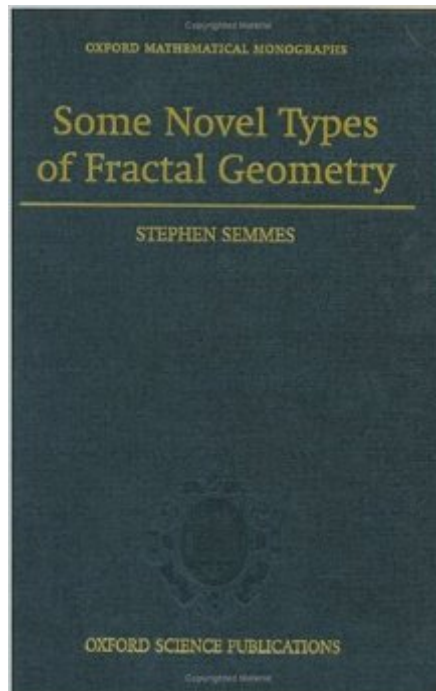# Some Novel Types Of Fractal Geometry (Oxford Mathematical Monographs)

Synopsis

This book deals with fractal geometries that have features similar to ones of ordinary Euclidean spaces, while at the same time being quite different from Euclidean spaces.. A basic example of this feature considered is the presence of Sobolev or Poincaré inequalities, concerning the relationship between the average behavior of a function and the average behavior of its small-scale oscillations. Remarkable results in the last few years through Bourdon-Pajot and Laakso have shown that there is much more in the way of geometries like this than have been realized, only examples related to nilpotent Lie groups and Carnot metrics were known previously. On the other had, 'typical' fractals that might be seen in pictures do not have these same kinds of features. This text examines these topics in detail and will interest graduate students as well as researchers in mathematics and various aspects of geometry and analysis.

Book Information

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Customer Reviews

Well, one reason is this is a book on fractal geometrywith zero pictures...This book went over everyone's head, I think.The concept of BPI (big pieces of itself) spaces is central to this bookand no real concrete example is given or illustrated.From there on (page 34) most people and me are lost (more than they areby Hausdorff spaces, for example).The area of fractals always needs new ideas and fundamentalresearch, but this approach of theorems based on akind of space that isn't clearly explained or shownin graphic examples just doesn't work even for the hard core math types.I

think that is a shame, because there just might be somethinghere worth making pictures of if it could be understood.

Some Novel Types of Fractal Geometry (Oxford Mathematical Monographs) Order In Chaos: How The Mandelbrot Set & Fractal Geometry Help Unlock the Secrets of The Entire Universe! (Mandelbrot Set, Fractal Geometry) Sasakian Geometry (Oxford Mathematical Monographs) Viewpoints: Mathematical Perspective and Fractal Geometry in Art Fractal Geometry: Mathematical Foundations and Applications On Growth and Form: Fractal and Non-Fractal Patterns in Physics (Nato Science Series E:) Fractal Conjugate Space & Time: Cause of Negentropy, Gravity and Perception: Conjuring Life: "The Fractal Shape of TIME" Geometric Origins of Biologic Negentropy.. Geometry of Differential Forms (Translations of Mathematical Monographs, Vol. 201) Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical Library, V. 20) Blood Types, Body Types And You (Revised & Expanded) Eat Right for Your Type Live Right for Your Type (4 blood types, 4 diets 4 blood types, 4 programs) I've Got Some Good News and Some Bad News: YOU'RE OLD: Tales of a Geriatrician, What to expect in your 60's, 70's, 80's, and Beyond The Guide to Ohio Divorce: Some Basics and Some Advanced Topics The Mathematical Olympiad Handbook: An Introduction to Problem Solving Based on the First 32 British Mathematical Olympiads 1965-1996 (Oxford Science Publications) The Fractal Geometry of Nature Introducing Fractal Geometry Introducing Fractal Geometry New Edition by Lesmior-Gordon, Nigel published by Icon Books Ltd (2006) Some Mathematical Questions in Biology: The Dynamics of Excitable Media (Lectures on Mathematics in the Life Sciences) Cell Biology of Tooth Enamel Formation: Functional Electron Microscopic Monographs (Monographs in Oral Science, Vol. 14) Representations of Algebraic Groups (Mathematical Surveys and Monographs)