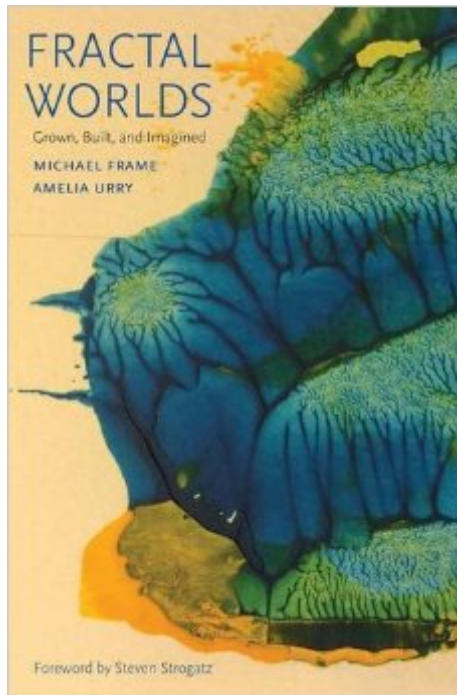


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Fractal Worlds: Grown, Built, And Imagined



Synopsis

Fractal geometry is a uniquely fascinating area of mathematics, exhibited in a range of shapes that exist in the natural world, from a simple broccoli floret to a majestic mountain range. In this essential primer, mathematician Michael Frame—a close collaborator with Benoit Mandelbrot, the founder of fractal geometry—and poet Amelia Urry explore the amazing world of fractals as they appear in nature, art, medicine, and technology. Frame and Urry offer new insights into such familiar topics as measuring fractal complexity by dimension and the life and work of Mandelbrot. In addition, they delve into less-known areas: fractals with memory, the Mandelbrot set in four dimensions, fractals in literature, and more. An inviting introduction to an enthralling subject, this comprehensive volume is ideal for learning and teaching.

Book Information

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Customer Reviews

Michael Frame, a professor at Yale University and collaborator with Benoit Mandelbrot for over 20 years, has co-authored a brilliant book with Amelia Urry, that will have you happily dancing down the spiral-like path of fractal mathematics. Michael has an amazing gift for taking the complex worlds of fractal transformations and making bite sized candy pieces. Even something as eye-boggling as the Mandelbrot set is broken down into simple easy to follow steps. -- He has a charming habit of using his pet cats as models and commentary. -- A recipient of the DeVane award for outstanding undergraduate teaching, he draws from all areas of human experience to demonstrate the fundamental relations of fractals to nature, human or otherwise. The book includes examples from

literature, art, biology, geology, and astronomy-- making it accessible to nearly everyone, budding mathematician or not. And if you are a budding mathematician, it does not disappoint! The text is very complete thorough review of fractals as we know them, with hints of what we may yet discover.

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