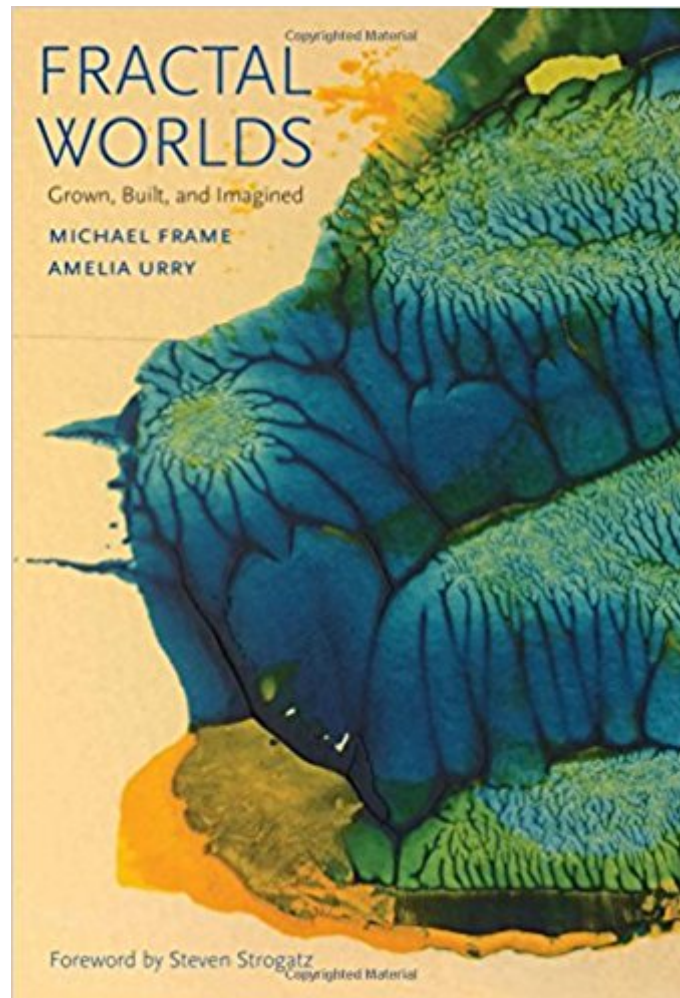




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# Fractal Worlds: Grown, Built, And Imagined



## 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

“Fractal Worlds portrays math as math lovers know it: a beautiful garden, a place of curiosity and delight, a tribute to human creativity and the wonders of nature.” —Steven Strogatz, author of *Sync* and *The Joy of x* (Steven Strogatz) “Fractal Worlds is a cornucopia of all things fractal. Simultaneously rigorous and gentle, it engages the reader in orderly, yet wildly imaginative, musings. An instant classic.” —David Peak, Utah State University (David Peak) “Frame and Urry give us the ultimate perusing experience of fractal marvels as a far-reaching string of luminous gems encircling literature, art, science, and nature.” —Joseph Mazur, author of *Fluke: The Math and Myth of Coincidences* (Joseph Mazur) “Fractal Worlds can be appreciated at many levels.

Experts and newcomers alike will discover fresh gems from the universe of fractals, their science, mathematics, and art. • "Kenneth Falconer, author of *Fractal Geometry: Mathematical Foundations and Applications* (Kenneth Falconer) Won an Honorable Mention in the Mathematics category for the 2017 American Publishers Awards for Professional & Scholarly Excellence (PROSE). (PROSE PROSE 2017-02-03)

Michael Frame taught mathematics at Yale University for twenty years. Amelia Urry is a journalist and poet.

A gift for a much more maths inclined friend; it had plenty of little pictures in it at any rate and they seemed pleased to receive it.

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 facials as we know them, with hints of what we may yet discover.

Reflecting the wide ranging spectrum of fractals in mathematics, science, technology, art, and engineering, the authors have produced a 'must have' for anyone with curiosity with this fascinating topic. While some of the math will be tough going for those not so inclined, all they have to do is turn the page for a different and well written explanation of a different fractal application. Fun! Not since Mandebrot's *FRACTAL GEOMETRY OF NATURE* and Barnsley's *FRACTALS EVERYWHERE* has there been such a definitive and essential book on fractals. Richly illustrated.

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