



# **Benoit Mandelbrot: A Life in Many Dimensions (Fractals and Dynamics in Mathematics, Science, and the Arts: Theory and Applications)**

*By Michael Frame, Nathan Cohen*

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This is a collection of articles, many written by people who worked with Mandelbrot, memorializing the remarkable breadth and depth of his work in science and the arts. Contributors include mathematicians, physicists, biologists, economists, and engineers, as expected; and also artists, musicians, teachers, an historian, an architect, a filmmaker, and a comic. Some articles are quite technical, others entirely descriptive. All include stories about Benoit.

Also included are chapters on fractals and music by Charles Wuorinen and by Harlan Brothers, on fractals and finance by Richard Hudson and by Christian Walter, on fractal invisibility cloaks by Nathan Cohen, and a personal reminiscence by Aliette Mandelbrot.

While he is known most widely for his work in mathematics and in finance, Benoit influenced almost every field of modern intellectual activity. No other book captures the breadth of all of Benoit's accomplishments.

**Readership:** People interested in the life work of Benoit Mandelbrot. While the technical articles will be accessible mainly to scientists, the range of chapters provides material of interest to a wide range of readers. The audience range from the general public for some parts, through high school and college teachers, to research scientists.

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