

## Fractal-based methods in analysis

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### Abstrak

Fractal-based methods are at the heart of modeling the behavior of phenomena at varying scales. This volume collates techniques for using IFS fractals, including the very latest cutting-edge methods, from more than 20 years of research in this area. The second chapter on basic iterated function systems theory is designed to be used as the basis for a course and includes many exercises. This chapter, along with the three background appendices on topological and metric spaces, measure theory, and basic results from set-valued analysis, make the book suitable for self-study or as a source book for a graduate course. The other chapters illustrate many extensions and applications of fractal-based methods to different areas.