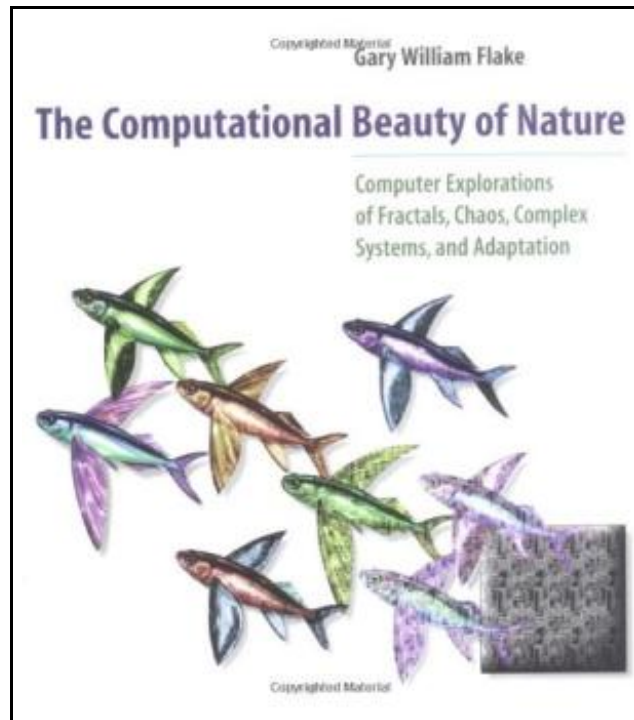# The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Complex Systems and Adaptation

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Reviews

The publication is great and fantastic. It is probably the most remarkable book i actually have read through. Its been printed in an exceedingly easy way and it is merely right after i finished reading through this publication where in fact altered me, modify the way i think.
(Tomasa Witting)

THE COMPUTATIONAL BEAUTY OF NATURE: COMPUTER EXPLORATIONS OF FRACTALS, CHAOS, COMPLEX SYSTEMS AND ADAPTATION

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MIT Press Ltd. Paperback. Book Condition: new. BRAND NEW, The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Complex Systems and Adaptation, Gary William Flake, "Simulation," writes Gary Flake in his preface, "becomes a form of experimentation in a universe of theories. The primary purpose of this book is to celebrate this fact."In this book, Gary William Flake develops in depth the simple idea that recurrent rules can produce rich and complicated behaviors. Distinguishing "agents" (e.g., molecules, cells, animals, and species) from their interactions (e.g., chemical reactions, immune system responses, sexual reproduction, and evolution), Flake argues that it is the computational properties of interactions that account for much of what we think of as "beautiful" and "interesting." From this basic thesis, Flake explores what he considers to be today's four most interesting computational topics: fractals, chaos, complex systems, and adaptation. Each of the book's parts can be read independently, enabling even the casual reader to understand and work with the basic equations and programs. Yet the parts are bound together by the theme of the computer as a laboratory and a metaphor for understanding the universe. The inspired reader will experiment further with the ideas presented to create fractal landscapes, chaotic systems, artificial life forms, genetic algorithms, and artificial neural networks.

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