



THE NATURE OF CODE

Can we capture the unpredictable
evolutionary and emergent
properties of nature in software?

Can understanding the mathematical
principles behind our physical world
help us to create digital worlds?

This book focuses on the programming
strategies and techniques behind
computer simulations of natural
systems. We explore topics ranging
from basic mathematics and physics
concepts to more advanced
simulations of complex systems.

Subjects covered include forces,
trigonometry, fractals, cellular
automata, self-organization, and
genetic algorithms

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THE PROGRAMMING BEHIND COMPUTER
SIMULATIONS OF NATURAL SYSTEMS

DANIEL SHIFFMAN
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