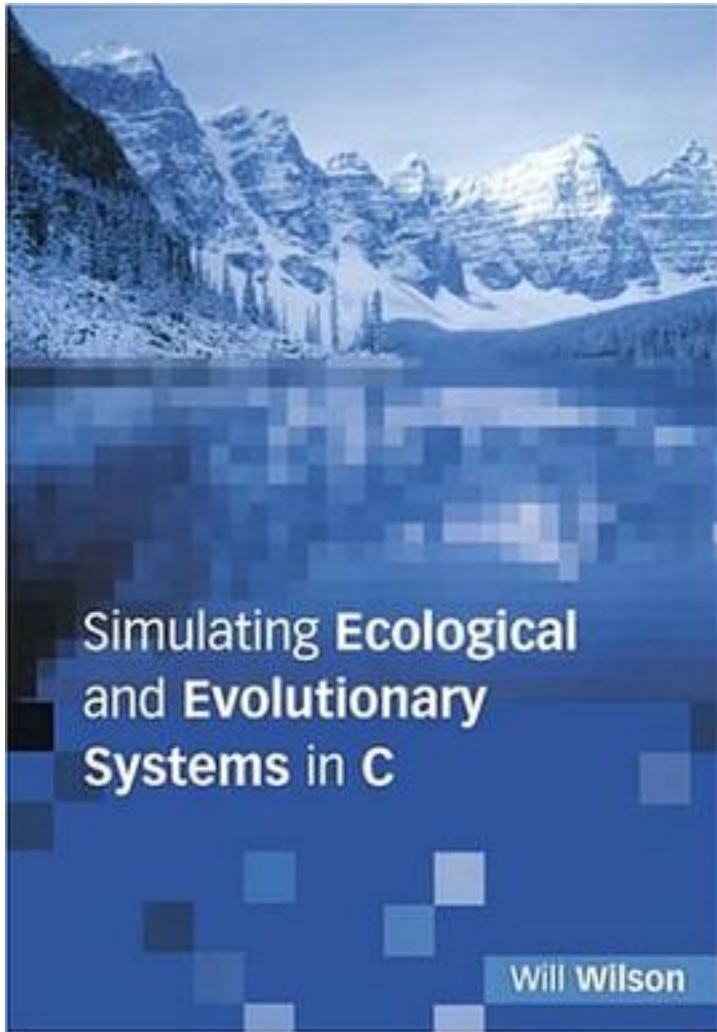


Simulating Ecological and Evolutionary Systems in C



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Computer simulations are a powerful tool for understanding ecological and evolutionary systems. Simulating Ecological and Evolutionary Systems in C models a diverse range of biological processes and systems, including competition, foraging, predation, mating systems, and life-history optimization, by simulating large collections of interacting individuals. Using the programming language C, the book starts with elementary programs modeling stochastic birth-death processes, with programming complexity increasing as the chapters progress. Wilson covers all the important features of C: arrays, files, pointers, and structures, within biologically motivated simulations. Although computer simulations of extremely complicated biological processes are released from rigid mathematical constraints, he places each of the simulations in the context of a mathematical formulation examined either analytically or numerically.

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