

Chapter 13 How Populations Evolve Answer Key

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this book is based on the best papers presented at the 7th conference on artificial evolution ea 2005 held in lille france

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complex organismal functions integration and evolution in vertebrates d b wake g roth editors the complexity of forms and functions of organisms studied in an evolutionary context prompts a fundamental question of modern biology how did complex functional systems apparently stabilized by high degrees of integration evolve to

their present diversity this and related questions were discussed by 48 distinguished scientists from many fields of vertebrate biology including functional and comparative morphologists neurobiologists reproductive biologists and endocrinologists developmental biologists ecologists ethologists population geneticists and theorists at a dahlem workshop this volume is a report of that meeting the major areas of discussion were evolutionary diversification of feeding mechanisms evolution of locomotor systems trends in reproductive biology especially the repeated evolution of vertebrate viviparity and alternative and complementary concepts of the production of evolutionary novelties and patterns these topics reflect the excitement and dynamism of current debate in evolutionary biology and constitute a cohesive point of departure for further research

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researchers in several fields are exploring computational systems in which interesting global behavior emerges from local interactions among component parts an approach called emergent computation in these systems interactions among simultaneous computations are exploited to improve efficiency increase flexibility or provide more realistic models of natural phenomena these 31 essays define and explore the concept of emergent computation in such areas as artificial networks adaptive systems classifier systems connectionist learning other learning and biological networks to determine what properties are required of the supporting architectures that

generate them many of the essays share the themes of design how to construct such systems the importance of preexisting structure to learning and the role of parallelism and the tension between cooperative and competitive models of interaction in the introduction stephanie forrest presents several detailed examples of the kinds of problems emergent computation can address these include showing how emergent computation can lead to efficiency improvements in parallel processing establishing the connection between emergent computation and nonlinear systems and comparing two search techniques to show how the emergent computational approach to a problem differs from other more conventional approaches stephanie forrest is assistant professor in the department of computer science at the university of new mexico she is also affiliated with the center for nonlinear studies and computing division at los alamos national laboratory

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