



# Evolutionary Games in Natural, Social, and Virtual Worlds (Hardback)

By Distinguished Professor of Economics Daniel Friedman, Professor Department of Ecology and Evolutionary Biology Barry Sinervo

Oxford University Press Inc, United States, 2016. Hardback. Book Condition: New. 241 x 163 mm. Language: English . Brand New Book. Over the last 25 years, evolutionary game theory has grown with theoretical contributions from the disciplines of mathematics, economics, computer science and biology. It is now ripe for applications. In this book, Daniel Friedman--an economist trained in mathematics--and Barry Sinervo--a biologist trained in mathematics--offer the first unified account of evolutionary game theory aimed at applied researchers. They show how to use a single set of tools to build useful models for three different worlds: the natural world studied by biologists; the social world studied by anthropologists, economists, political scientists and others; and the virtual world built by computer scientists and engineers. The first six chapters offer an accessible introduction to core concepts of evolutionary game theory. These include fitness, replicator dynamics, sexual dynamics, memes and genes, single and multiple population games, Nash equilibrium and evolutionarily stable states, noisy best response and other adaptive processes, the Price equation, and cellular automata. The material connects evolutionary game theory with classic population genetic models, and also with classical game theory. Notably, these chapters also show how to estimate payoff and choice parameters...

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