
Game Theory An Introduction

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Game Theory *Princeton University Press*

The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with

a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students

Game Theory *Princeton University Press*

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Game Theory

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Game Theory John Wiley & Sons

An exciting new edition of the popular introduction to game theory and its applications The thoroughly expanded Second Edition presents a unique, hands-on approach to game theory. While most books on the subject are too abstract or too basic for mathematicians, Game Theory: An Introduction, Second Edition offers a blend of theory and applications, allowing readers to use theory and software to create and analyze real-world decision-making models. With a rigorous, yet accessible, treatment of mathematics, the book focuses on results that can be used to determine optimal game strategies. Game Theory: An Introduction, Second Edition demonstrates how to use modern software, such as Maple™, Mathematica®, and Gambit, to create, analyze, and implement effective decision-making models. Coverage

includes the main aspects of game theory including the fundamentals of two-person zero-sum games, cooperative games, and population games as well as a large number of examples from various fields, such as economics, transportation, warfare, asset distribution, political science, and biology. The Second Edition features: • A new chapter on extensive games, which greatly expands the implementation of available models • New sections on correlated equilibria and exact formulas for three-player cooperative games • Many updated topics including threats in bargaining games and evolutionary stable strategies • Solutions and methods used to solve all odd-numbered problems • A companion website containing the related Maple and Mathematica data sets and code A trusted and proven guide for students of mathematics and economics, *Game Theory: An Introduction, Second Edition* is also an excellent resource for researchers and practitioners in economics, finance, engineering, operations research, statistics, and computer science.

Game Theory *John Wiley & Sons*

An exciting new edition of the popular introduction to game theory and its applications The thoroughly expanded Second Edition presents a unique, hands-on approach to game theory. While most books on the subject are too abstract or too basic for mathematicians, *Game Theory: An Introduction, Second Edition* offers a blend of theory and applications, allowing readers to use theory and software to create and analyze real-world decision-making models. With a rigorous, yet accessible, treatment of mathematics, the book focuses on results that can be used to

determine optimal game strategies. *Game Theory: An Introduction, Second Edition* demonstrates how to use modern software, such as Maple™, Mathematica®, and Gambit, to create, analyze, and implement effective decision-making models. Coverage includes the main aspects of game theory including the fundamentals of two-person zero-sum games, cooperative games, and population games as well as a large number of examples from various fields, such as economics, transportation, warfare, asset distribution, political science, and biology. The Second Edition features: • A new chapter on extensive games, which greatly expands the implementation of available models • New sections on correlated equilibria and exact formulas for three-player cooperative games • Many updated topics including threats in bargaining games and evolutionary stable strategies • Solutions and methods used to solve all odd-numbered problems • A companion website containing the related Maple and Mathematica data sets and code A trusted and proven guide for students of mathematics and economics, *Game Theory: An Introduction, Second Edition* is also an excellent resource for researchers and practitioners in economics, finance, engineering, operations research, statistics, and computer science.

Political Game Theory *Cambridge University Press*

Political Game Theory is a self-contained introduction to game theory and its applications to political science. The book presents choice theory, social choice theory, static and dynamic games of complete information, static and dynamic games of incomplete

information, repeated games, bargaining theory, mechanism design and a mathematical appendix covering, logic, real analysis, calculus and probability theory. The methods employed have many applications in various disciplines including comparative politics, international relations and American politics. Political Game Theory is tailored to students without extensive backgrounds in mathematics, and traditional economics, however there are also many special sections that present technical material that will appeal to more advanced students. A large number of exercises are also provided to practice the skills and techniques discussed.

Introduction to the Theory of Games

Courier Corporation

This comprehensive overview of the mathematical theory of games illustrates applications to situations involving conflicts of interest, including economic, social, political, and military contexts. Advanced calculus a prerequisite. Includes 51 figures and 8 tables. 1952 edition.

Decision Making Using Game Theory

Cambridge University Press

Game theory is a key element in most decision-making processes involving two or more people or organisations. This book explains how game theory can predict the outcome of complex decision-making processes, and how it can help you to improve your own negotiation and decision-making skills. It is grounded in well-established theory, yet the wide-ranging international examples used to illustrate its application offer a fresh approach to an essential weapon in the armoury of the informed manager. The book is

accessibly written, explaining in simple terms the underlying mathematics behind games of skill, before moving on to more sophisticated topics such as zero-sum games, mixed-motive games, and multi-person games, coalitions and power. Clear examples and helpful diagrams are used throughout, and the mathematics is kept to a minimum. It is written for managers, students and decision makers in any field.

Game Theory Bloomsbury Publishing

Using fascinating examples from a range of disciplines, this textbook provides social science, philosophy and economics students with an engaging introduction to the tools they need to understand and predict strategic interactions. Beginning with an introduction to the most famous games, the book uses clear, jargon-free language and accessible maths as it guides the reader through whole games with full, worked-through examples. End-of-chapter exercises help to consolidate understanding along the way. With an applied approach that draws upon real-life case-studies, this book highlights the insights that game theory can offer each situation. It is an ideal textbook for students approaching game theory from various fields across the social sciences, and for curious general readers who are looking for a thorough introduction to this intriguing subject. Accompanying online resources for this title can be found at bloomsburyonlineresources.com/game-theory. These resources are designed to support teaching and learning when using this textbook and are available at no extra cost.

The Joy of Game Theory

This book is a selection of the best

articles from Game Theory Tuesdays, a column from the blog Mind Your Decisions. Articles from Game Theory Tuesdays have been referenced in The Freakonomics Blog, Yahoo Finance, and CNN.com. Game theory is the study of interactive decision making--that is, in situations where each person's action affects the outcome for the whole group. Game theory is a beautiful subject and this book will teach you how to understand the theory and practically implement solutions through a series of stories and the aid of over 30 illustrations. This book has two primary objectives. (1) To help you recognize strategic games, like the Prisoner's Dilemma, Bertrand Duopoly, Hotelling's Game, the Game of Chicken, and Mutually Assured Destruction. (2) To show you how to make better decisions and change the game, a powerful concept that can transform no-win situations into mutually beneficial outcomes. You'll learn how to negotiate better by making your threats credible, sometimes limiting options or burning bridges, and thinking about new ways to create better outcomes. As these goals indicate, game theory is about more than board games and gambling. It all seems so simple, and yet that definition belies the complexity of game theory. While it may only take seconds to get a sense of game theory, it takes a lifetime to appreciate and master it. This book will get you started.

An Introduction to Linear Programming and Game Theory John Wiley & Sons

Praise for the Second Edition: "This is quite a well-done book: very tightly organized, better-than-average exposition, and numerous examples, illustrations, and applications."

—Mathematical Reviews of the American Mathematical Society An Introduction to Linear Programming and Game Theory, Third Edition presents a rigorous, yet accessible, introduction to the theoretical concepts and computational techniques of linear programming and game theory. Now with more extensive modeling exercises and detailed integer programming examples, this book uniquely illustrates how mathematics can be used in real-world applications in the social, life, and managerial sciences, providing readers with the opportunity to develop and apply their analytical abilities when solving realistic problems. This Third Edition addresses various new topics and improvements in the field of mathematical programming, and it also presents two software programs, LP Assistant and the Solver add-in for Microsoft Office Excel, for solving linear programming problems. LP Assistant, developed by coauthor Gerard Keough, allows readers to perform the basic steps of the algorithms provided in the book and is freely available via the book's related Web site. The use of the sensitivity analysis report and integer programming algorithm from the Solver add-in for Microsoft Office Excel is introduced so readers can solve the book's linear and integer programming problems. A detailed appendix contains instructions for the use of both applications. Additional features of the Third Edition include: A discussion of sensitivity analysis for the two-variable problem, along with new examples demonstrating integer programming, non-linear programming, and make vs. buy models Revised proofs and a discussion on the relevance and solution of the dual problem A section on developing an example in Data

Envelopment Analysis An outline of the proof of John Nash's theorem on the existence of equilibrium strategy pairs for non-cooperative, non-zero-sum games. Providing a complete mathematical development of all presented concepts and examples, *Introduction to Linear Programming and Game Theory, Third Edition* is an ideal text for linear programming and mathematical modeling courses at the upper-undergraduate and graduate levels. It also serves as a valuable reference for professionals who use game theory in business, economics, and management science.

Strategy and Politics *Routledge*

Strategy and Politics: An Introduction to Game Theory is designed to introduce students with no background in formal theory to the application of game theory to modeling political processes. This accessible text covers the essential aspects of game theory while keeping the reader constantly in touch with why political science as a whole would benefit from considering this method. Examining the very phenomena that power political machineries—elections, legislative and committee processes, and international conflict, the book attempts to answer fundamental questions about their nature and function in a clear, accessible manner. Included at the end of each chapter is a set of exercises designed to allow students to practice the construction and analysis of political models. Although the text assumes only an elementary-level training in algebra, students who complete a course around this text will be equipped to read nearly all of the professional literature that makes use of game theoretic analysis.

Noncooperative Game Theory *Princeton University Press*

Noncooperative Game Theory is aimed at students interested in using game theory as a design methodology for solving problems in engineering and computer science. João Hespanha shows that such design challenges can be analyzed through game theoretical perspectives that help to pinpoint each problem's essence: Who are the players? What are their goals? Will the solution to "the game" solve the original design problem? Using the fundamentals of game theory, Hespanha explores these issues and more. The use of game theory in technology design is a recent development arising from the intrinsic limitations of classical optimization-based designs. In optimization, one attempts to find values for parameters that minimize suitably defined criteria—such as monetary cost, energy consumption, or heat generated. However, in most engineering applications, there is always some uncertainty as to how the selected parameters will affect the final objective. Through a sequential and easy-to-understand discussion, Hespanha examines how to make sure that the selection leads to acceptable performance, even in the presence of uncertainty—the unforgiving variable that can wreck engineering designs. Hespanha looks at such standard topics as zero-sum, non-zero-sum, and dynamics games and includes a MATLAB guide to coding. *Noncooperative Game Theory* offers students a fresh way of approaching engineering and computer science applications. An introduction to game theory applications for students of engineering and computer science. Materials presented sequentially and in an easy-to-understand fashion. Topics

explore zero-sum, non-zero-sum, and dynamics games MATLAB commands are included

Game Theory: A Simple Introduction

K.H. Erickson

Game Theory: A Simple Introduction offers an accessible and enjoyable guide to the basic principles and extensive applications of game theory. Understand a game matrix, the prisoners' dilemma, dominant and mixed strategies, zero-sum games, Pareto efficiency, the Nash equilibrium, and the power of asymmetric information. Calculate payoffs and outcomes in games involving characters such as Jack and Jill, or Frodo and Gollum. Look at the effects of altruism and hatred on games, and see how games can change over time. Explore examples looking at gang members, free riders, global governance, a long-term relationship, competing corporations, advertisers and their customers, along with familiar hawk-dove and chicken games. See game players use every trick in the book to get what they want, with over 50 images to guide through the steps they use to play the game.

Games and Information *Wiley-Blackwell*

What may be the most successful introductory game theory textbook ever written is now available in its fourth edition. Since it first published in 1989, successive editions have made its presentation ever more elegant, with incisive problem sets and applications.

Introduction to Game Theory in Business and Economics *Routledge*

Game theory is the study of strategic behavior in situations in which the decision makers are aware of the

interdependence of their actions. This innovative textbook introduces students to the most basic principles of game theory - move and countermove - with an emphasis on real-world business and economic applications. Students with a background in principles of economics and business mathematics can readily understand most of the material. Demonstration problems in each chapter are designed to enhance the student's understanding of the concepts presented in the text. Many chapters include non-technical applications designed to further the student's intuitive understanding of strategic behavior. Case studies help underscore the usefulness of game theory for analyzing real-world situations. Each chapter concludes with a review and questions and exercises. An online Instructor's Manual with test bank is available to professors who adopt the text.

Introduction to Game Theory *Springer Science & Business Media*

This advanced textbook covers the central topics in game theory and provides a strong basis from which readers can go on to more advanced topics. The subject matter is approached in a mathematically rigorous, yet lively and interesting way. New definitions and topics are motivated as thoroughly as possible. Coverage includes the idea of iterated Prisoner's Dilemma (super games) and challenging game-playing computer programs.

Game Theory *Springer*

This textbook presents the basics of game theory both on an undergraduate level and on a more advanced mathematical level. It is the second, revised version of the successful 2008

edition. The book covers most topics of interest in game theory, including cooperative game theory. Part I presents introductions to all these topics on a basic yet formally precise level. It includes chapters on repeated games, social choice theory, and selected topics such as bargaining theory, exchange economies, and matching. Part II goes deeper into noncooperative theory and treats the theory of zerosum games, refinements of Nash equilibrium in strategic as well as extensive form games, and evolutionary games. Part III covers basic concepts in the theory of transferable utility games, such as core and balancedness, Shapley value and variations, and nucleolus. Some mathematical tools on duality and convexity are collected in Part IV. Every chapter in the book contains a problem section. Hints, answers and solutions are included.

Strategy: An Introduction to Game Theory (Third Edition) *W. W. Norton*

The perfect balance of readability and formalism. Joel Watson has refined his successful text to make it even more student-friendly. A number of sections have been added, and numerous chapters have been substantially revised. Dozens of new exercises have been added, along with solutions to selected exercises. Chapters are short and focused, with just the right amount of mathematical content and end-of-chapter exercises. New passages walk students through tricky topics.

Game Theory in Action *Princeton University Press*

The essential textbook for learning game theory strategies Game Theory in Action is a textbook about using game theory across a range of real-life scenarios.

From traffic accidents to the sex lives of lizards, Stephen Schecter and Herbert Gintis show students how game theory can be applied in diverse areas including animal behavior, political science, and economics. The book's examples and problems look at such fascinating topics as crime-control strategies, climate-change negotiations, and the power of the Oracle at Delphi. The text includes a substantial treatment of evolutionary game theory, where strategies are not chosen through rational analysis, but emerge by virtue of being successful. This is the side of game theory that is most relevant to biology; it also helps to explain how human societies evolve. Aimed at students who have studied basic calculus and some differential equations, Game Theory in Action is the perfect way to learn the concepts and practical tools of game theory. Aimed at students who have studied calculus and some differential equations Examples are drawn from diverse scenarios, ranging from traffic accidents to the sex lives of lizards A substantial treatment of evolutionary game theory Useful problem sets at the end of each chapter

An Introduction to Game Theory *Oxford University Press, USA*

This text emphasizes the ideas behind modern game theory rather than their mathematical expression, but defines all concepts precisely. It covers strategic, extensive and coalitional games and includes the topics of repeated games, bargaining theory and evolutionary equilibrium.

Game Theory: A Very Short Introduction *Oxford University Press*

Games are played everywhere: from economics to evolutionary biology, and from social interactions to online

auctions. This title shows how to play such games in a rational way, and how to maximize their outcomes.

An Introductory Course on Mathematical Game Theory *American Mathematical Society*

Game theory provides a mathematical setting for analyzing competition and cooperation in interactive situations. The theory has been famously applied in economics, but is relevant in many other sciences, such as political science, biology, and, more recently, computer science. This book presents an introductory and up-to-date course on game theory addressed to mathematicians and economists, and to other scientists having a basic mathematical background. The book is self-contained, providing a formal description of the classic game-theoretic concepts together with rigorous proofs of the main results in the field. The theory is illustrated through abundant examples, applications, and exercises. The style is distinctively concise, while offering motivations and interpretations of the theory to make the book accessible to a wide readership. The basic concepts and results of game theory are given a formal treatment, and the mathematical tools necessary to develop them are carefully presented. Cooperative games are explained in detail, with bargaining and TU-games being treated as part of a general framework. The authors stress the relation between game theory and operations research. The book is suitable for a graduate or an advanced undergraduate course on game theory.

Introduction to Topology and Geometry *John Wiley & Sons*

An easily accessible introduction to over

three centuries of innovations in geometry Praise for the First Edition "... a welcome alternative to compartmentalized treatments bound to the old thinking. This clearly written, well-illustrated book supplies sufficient background to be self-contained." —CHOICE This fully revised new edition offers the most comprehensive coverage of modern geometry currently available at an introductory level. The book strikes a welcome balance between academic rigor and accessibility, providing a complete and cohesive picture of the science with an unparalleled range of topics. Illustrating modern mathematical topics, *Introduction to Topology and Geometry, Second Edition* discusses introductory topology, algebraic topology, knot theory, the geometry of surfaces, Riemann geometries, fundamental groups, and differential geometry, which opens the doors to a wealth of applications. With its logical, yet flexible, organization, the Second Edition: • Explores historical notes interspersed throughout the exposition to provide readers with a feel for how the mathematical disciplines and theorems came into being • Provides exercises ranging from routine to challenging, allowing readers at varying levels of study to master the concepts and methods • Bridges seemingly disparate topics by creating thoughtful and logical connections • Contains coverage on the elements of polytope theory, which acquaints readers with an exposition of modern theory *Introduction to Topology and Geometry, Second Edition* is an excellent introductory text for topology and geometry courses at the upper-undergraduate level. In addition, the book serves as an ideal reference for professionals interested in gaining a deeper understanding of the

topic.

Essentials of Game Theory *Morgan & Claypool Publishers*

Game theory is the mathematical study of interaction among independent, self-interested agents. The audience for game theory has grown dramatically in recent years, and now spans disciplines as diverse as political science, biology, psychology, economics, linguistics, sociology, and computer science, among others. What has been missing is a relatively short introduction to the field covering the common basis that anyone with a professional interest in game theory is likely to require. Such a text would minimize notation, ruthlessly focus on essentials, and yet not sacrifice rigor. This Synthesis Lecture aims to fill this gap by providing a concise and accessible introduction to the field. It covers the main classes of games, their representations, and the main concepts used to analyze them.

Lessons in Play *CRC Press*

Combinatorial games are games of pure strategy involving two players, with perfect information and no element of chance. Starting from the very basics of gameplay and strategy, the authors cover a wide range of topics, from game algebra to special classes of games. Classic techniques are introduced and applied in novel ways to analyze both old and

Game Theory *Cambridge University Press*

Now in its second edition, this popular textbook on game theory is unrivalled in the breadth of its coverage, the thoroughness of technical explanations and the number of worked examples included. Covering non-cooperative and

cooperative games, this introduction to game theory includes advanced chapters on auctions, games with incomplete information, games with vector payoffs, stable matchings and the bargaining set. This edition contains new material on stochastic games, rationalizability, and the continuity of the set of equilibrium points with respect to the data of the game. The material is presented clearly and every concept is illustrated with concrete examples from a range of disciplines. With numerous exercises, and the addition of a solution manual with this edition, the book is an extensive guide to game theory for undergraduate through graduate courses in economics, mathematics, computer science, engineering and life sciences, and will also serve as useful reference for researchers.

Game Theory *John Wiley & Sons*

A fundamental introduction to modern game theory from a mathematical viewpoint Game theory arises in almost every fact of human and inhuman interaction since oftentimes during these communications objectives are opposed or cooperation is viewed as an option. From economics and finance to biology and computer science, researchers and practitioners are often put in complex decision-making scenarios, whether they are interacting with each other or working with evolving technology and artificial intelligence. Acknowledging the role of mathematics in making logical and advantageous decisions, *Game Theory: An Introduction* uses modern software applications to create, analyze, and implement effective decision-making models. While most books on modern game theory are either too abstract or too applied, this

book provides a balanced treatment of the subject that is both conceptual and hands-on. Game Theory introduces readers to the basic theories behind games and presents real-world examples from various fields of study such as economics, political science, military science, finance, biological science as well as general game playing. A unique feature of this book is the use of Maple to find the values and strategies of games, and in addition, it aids in the implementation of algorithms for the solution or visualization of game concepts. Maple is also utilized to facilitate a visual learning environment of game theory and acts as the primary tool for the calculation of complex non-cooperative and cooperative games. Important game theory topics are presented within the following five main areas of coverage: Two-person zero sum matrix games Nonzero sum games and the reduction to nonlinear programming Cooperative games, including discussion of both the Nucleolus concept and the Shapley value Bargaining, including threat strategies Evolutionary stable strategies and population games Although some mathematical competence is assumed, appendices are provided to act as a refresher of the basic concepts of linear algebra, probability, and statistics. Exercises are included at the end of each section along with algorithms for the solution of the games to help readers master the presented information. Also, explicit Maple and Mathematica® commands are included in the book and are available as worksheets via the book's related Website. The use of this software allows readers to solve many more advanced and interesting games without spending time on the theory of linear and nonlinear programming or

performing other complex calculations. With extensive examples illustrating game theory's wide range of relevance, this classroom-tested book is ideal for game theory courses in mathematics, engineering, operations research, computer science, and economics at the upper-undergraduate level. It is also an ideal companion for anyone who is interested in the applications of game theory.

Introduction to the Theory of Cooperative Games *Springer Science & Business Media*

This book systematically presents the main solutions of cooperative games: the core, bargaining set, kernel, nucleolus, and the Shapley value of TU games as well as the core, the Shapley value, and the ordinal bargaining set of NTU games. The authors devote a separate chapter to each solution, wherein they study its properties in full detail. In addition, important variants are defined or even intensively analyzed.

Game Theory *Psychology Press*

Requiring no more than basic arithmetic, this book provides a careful and accessible introduction to the basic pillars of Game Theory, tracing its intellectual origins and philosophical premises.

Game Theory, Alive *American Mathematical Soc.*

We live in a highly connected world with multiple self-interested agents interacting and myriad opportunities for conflict and cooperation. The goal of game theory is to understand these opportunities. This book presents a rigorous introduction to the mathematics of game theory without losing sight of the joy of the subject. This is done by

focusing on theoretical highlights (e.g., at least six Nobel Prize winning results are developed from scratch) and by presenting exciting connections of game theory to other fields such as computer science (algorithmic game theory), economics (auctions and matching markets), social choice (voting theory), biology (signaling and evolutionary stability), and learning theory. Both classical topics, such as zero-sum games, and modern topics, such as sponsored search auctions, are covered. Along the way, beautiful mathematical tools used in game theory are introduced, including convexity, fixed-point theorems, and probabilistic arguments. The book is appropriate for a first course in game theory at either the undergraduate or graduate level, whether in mathematics, economics, computer science, or statistics. The importance of game-theoretic thinking transcends the academic setting—for every action we take, we must consider not only its direct effects, but also how it influences the incentives of others.

Game Theory Basics *Cambridge University Press*

A lively introduction to Game Theory, ideal for students in mathematics, computer science, or economics.

Game Theory *Oxford University Press on Demand*

Covering all the essential topics for undergraduate courses, this is the ideal student introduction to game theory. The book sets out the basics of the subject in a non-technical way. All discussion and explanation is clear, well structured, and entirely accessible to students of both economics and business. In addition to describing and explaining the basic theory, Game Theory uses illustrations

and examples to show its application to realistic, topical, and interesting problems—ranging from strategic decision-making within companies to international environmental policy-making. The book also features exercises with accompanying solutions to allow the student to check progress throughout the course, and a guide to further reading at the end of each chapter.

Game Theory and Strategy *MAA*

This book deals with applications of game theory in a wide variety of disciplines.

Game Theory *Courier Corporation*

This fascinating, newly revised edition offers an overview of game theory, plus lucid coverage of two-person zero-sum game with equilibrium points; general, two-person zero-sum game; utility theory; and other topics.

Introducing Game Theory and its Applications *CRC Press*

The mathematical study of games is an intriguing endeavor with implications and applications that reach far beyond tic-tac-toe, chess, and poker to economics, business, and even biology and politics. Most texts on the subject, however, are written at the graduate level for those with strong mathematics, economics, or business backgrounds. In

Game Theory *Springer Science & Business Media*

The outstanding feature of this book is that it provides a unified account of three types of decision problem. It covers the basic ideas of decision theory, classical game theory, and evolutionary game theory in one volume. No background knowledge of economics or biology is required as examples have

been carefully selected for their accessibility. Detailed solutions to the numerous exercises are provided at the back of the book, making it ideal for self-study. This introduction to game theory is intended as a first course for undergraduate students of mathematics, but it will also interest advanced students or researchers in biology and economics.

Rock, Paper, Scissors *Basic Books*

Praised by Entertainment Weekly as “the man who put the fizz into physics,” Dr. Len Fisher turns his attention to the science of cooperation in his lively and thought-provoking book. Fisher shows how the modern science of game theory has helped biologists to understand the evolution of cooperation in nature, and investigates how we might apply those lessons to our own society. In a series of experiments that take him from the polite confines of an English dinner party to crowded supermarkets, congested Indian roads, and the wilds of outback Australia, not to mention baseball strategies and the intricacies of quantum mechanics, Fisher sheds light on the problem of global cooperation. The outcomes are sometimes hilarious, sometimes alarming, but always revealing. A witty romp through a serious science, *Rock, Paper, Scissors* will both teach and delight anyone interested in what it takes to get people to work together.

Economics and Computation *Springer*

This textbook connects three vibrant areas at the interface between economics and computer science: algorithmic game theory, computational social choice, and fair division. It thus

offers an interdisciplinary treatment of collective decision making from an economic and computational perspective. Part I introduces to algorithmic game theory, focusing on both noncooperative and cooperative game theory. Part II introduces to computational social choice, focusing on both preference aggregation (voting) and judgment aggregation. Part III introduces to fair division, focusing on the division of both a single divisible resource (“cake-cutting”) and multiple indivisible and unshareable resources (“multiagent resource allocation”). In all these parts, much weight is given to the algorithmic and complexity-theoretic aspects of problems arising in these areas, and the interconnections between the three parts are of central interest.

Introducing Game Theory *Icon Books*

When should you adopt an aggressive business strategy? How do we make decisions when we don’t have all the information? What makes international environmental cooperation possible? Game theory is the study of how we make a decision when the outcome of our moves depends on the decisions of someone else. Economists Ivan and Tuvana Pastine explain why, in these situations, we sometimes cooperate, sometimes clash, and sometimes act in a way that seems completely random. Stylishly brought to life by award-winning cartoonist Tom Humberstone, *Game Theory* will help readers understand behaviour in everything from our social lives to business, global politics to evolutionary biology. It provides a thrilling new perspective on the world we live in.