

Judgement Under Uncertainty Heuristics And Biases

The book reveals the strengths and weaknesses of four different people styles, providing practical techniques that work both on the job and off. Now including all new chapters on personal relationships, parenting, and more.

An introduction to decision making under uncertainty from a computational perspective, covering both theory and applications ranging from speech recognition to airborne collision avoidance. Many important problems involve decision making under uncertainty—that is, choosing actions based on often imperfect observations, with unknown outcomes. Designers of automated decision support systems must take into account the various sources of uncertainty while balancing the multiple objectives of the system. This book provides an introduction to the challenges of decision making under uncertainty from a computational perspective. It presents both the theory behind decision making models and algorithms and a collection of example applications that range from speech recognition to aircraft collision avoidance. Focusing on two methods for designing decision agents, planning and reinforcement learning, the book covers probabilistic models, introducing Bayesian networks as a

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graphical model that captures probabilistic relationships between variables; utility theory as a framework for understanding optimal decision making under uncertainty; Markov decision processes as a method for modeling sequential problems; model uncertainty; state uncertainty; and cooperative decision making involving multiple interacting agents. A series of applications shows how the theoretical concepts can be applied to systems for attribute-based person search, speech applications, collision avoidance, and unmanned aircraft persistent surveillance. *Decision Making Under Uncertainty* unifies research from different communities using consistent notation, and is accessible to students and researchers across engineering disciplines who have some prior exposure to probability theory and calculus. It can be used as a text for advanced undergraduate and graduate students in fields including computer science, aerospace and electrical engineering, and management science. It will also be a valuable professional reference for researchers in a variety of disciplines.

One of the main themes that has emerged from behavioral decision research during the past three decades is the view that people's preferences are often constructed in the process of elicitation. This idea is derived from studies demonstrating that normatively equivalent methods of elicitation (e.g.,

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choice and pricing) give rise to systematically different responses. These preference reversals violate the principle of procedure invariance that is fundamental to all theories of rational choice. If different elicitation procedures produce different orderings of options, how can preferences be defined and in what sense do they exist? This book shows not only the historical roots of preference construction but also the blossoming of the concept within psychology, law, marketing, philosophy, environmental policy, and economics. Decision making is now understood to be a highly contingent form of information processing, sensitive to task complexity, time pressure, response mode, framing, reference points, and other contextual factors. Objective medical decision-making has shown itself to be an emerging discipline which is sufficiently robust to promote its further development. This book identifies many important areas for applications in the field of acute patient care. The different approaches require testing, evaluation and mutual comparisons to ensure that the right method is used to solve the existing problem. Medical sciences and patient care are increasingly supported by system sciences, resulting in growing multi- and interdisciplinary research and development areas. In this context, system sciences involve the methods, techniques, concepts and approaches obtained from disciplines such as mathematics, statistics,

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stochastic signal theory, fuzzy set theory, systems and control theory, signal analysis, pattern recognition, simulation, computer languages, structured programming, data base management and computer sciences. This book contains the papers of a workshop "Objective Medical Decision making f Systems approach in acute disease" which was initiated and supported by the SWG/COMAC on Biomedical Engineering, Evaluation of Technology, Transfer and Standardization of CRM/CREST of the European Community. In setting up the original programme we have been assisted by a group of experts and for their cooperation we are very grateful to S. Dawids, Copenhagen E. Epple, Tlbingen ; J. Jones, Harrow; L. Lambotte, Brussels C. Marchesi, Pisa and D. Robert, Lyon. The papers have been arranged in four groups, each followed by a brief synopsis. The four groups are : diagnosis, monitoring, therapy and control, and evaluation of criteria and procedures.

In the Second Edition of Rational Choice in an Uncertain World the authors compare the basic principles of rationality with actual behaviour in making decisions. They describe theories and research findings from the field of judgment and decision making in a non-technical manner, using anecdotes as a teaching device. Intended as an introductory textbook for advanced undergraduate and graduate students, the material not only is of

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scholarly interest but is practical as well. The Second Edition includes: - more coverage on the role of emotions, happiness, and general well-being in decisions - a summary of the new research on the neuroscience of decision processes - more discussion of the adaptive value of (non-rational heuristics) - expansion of the graphics for decision trees, probability trees, and Venn diagrams.

Judgment Under Uncertainty
Heuristics and Biases
Cambridge University Press

Amos Tversky and Daniel Kahneman's 1974 paper 'Judgement Under Uncertainty: Heuristics and Biases' is a landmark in the history of psychology. Though a mere seven pages long, it has helped reshape the study of human rationality, and had a particular impact on economics - where Tversky and Kahneman's work helped shape the entirely new sub discipline of 'behavioral economics.' The paper investigates human decision-making, specifically what human brains tend to do when we are forced to deal with uncertainty or complexity. Based on experiments carried out with volunteers, Tversky and Kahneman discovered that humans make predictable errors of judgement when forced to deal with ambiguous evidence or make challenging decisions. These errors stem from 'heuristics' and 'biases' - mental shortcuts and assumptions that allow us to make swift, automatic decisions, often usefully and correctly, but occasionally to our

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detriment. The paper's huge influence is due in no small part to its masterful use of high-level interpretative and analytical skills - expressed in Tversky and Kahneman's concise and clear definitions of the basic heuristics and biases they discovered. Still providing the foundations of new work in the field 40 years later, the two psychologists' definitions are a model of how good interpretation underpins incisive critical thinking. This work examines issues such as medical diagnosis, weather forecasting, labour negotiations, risk, public policy, business strategy, eyewitnesses, and jury decisions. This is a revision of Arkes and Hammond's 1986 collection of papers on judgment and decision-making. Updated and extended, the focus of this volume is interdisciplinary and applied.

The 12th International Symposium on Distributed Computing and Artificial Intelligence 2015 (DCAI 2015) is a forum to present applications of innovative techniques for studying and solving complex problems. The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. The present edition brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the Osaka Institute of Technology, Qatar University and the

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University of Salamanca.

In the global marketplace, negotiation frequently takes place across cultural boundaries, yet negotiation theory has traditionally been grounded in Western culture. This book, which provides an in-depth review of the field of negotiation theory, expands current thinking to include cross-cultural perspectives. The contents of the book reflect the diversity of negotiation—research-negotiator cognition, motivation, emotion, communication, power and disputing, intergroup relationships, third parties, justice, technology, and social dilemmas—and provides new insight into negotiation theory, questioning assumptions, expanding constructs, and identifying limits not apparent from working exclusively within one culture. The book is organized in three sections and pairs chapters on negotiation theory with chapters on culture. The first part emphasizes psychological processes—cognition, motivation, and emotion. Part II examines the negotiation process. The third part emphasizes the social context of negotiation. A final chapter synthesizes the main themes of the book to illustrate how scholars and practitioners can capitalize on the synergy between culture and negotiation research. This handbook provides a comprehensive review of social cognition, ranging from its history and core research areas to its relationships with other fields. The 43 chapters included are written by eminent researchers in the field of social cognition, and are designed to be understandable and informative to readers with a wide range of backgrounds.

Major New York Times bestseller Winner of the National

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Academy of Sciences Best Book Award in 2012 Selected by the New York Times Book Review as one of the ten best books of 2011 A Globe and Mail Best Books of the Year 2011 Title One of The Economist's 2011 Books of the Year One of The Wall Street Journal's Best Nonfiction Books of the Year 2011 2013 Presidential Medal of Freedom Recipient Kahneman's work with Amos Tversky is the subject of Michael Lewis's The Undoing Project: A Friendship That Changed Our Minds In the international bestseller, Thinking, Fast and Slow, Daniel Kahneman, the renowned psychologist and winner of the Nobel Prize in Economics, takes us on a groundbreaking tour of the mind and explains the two systems that drive the way we think. System 1 is fast, intuitive, and emotional; System 2 is slower, more deliberative, and more logical. The impact of overconfidence on corporate strategies, the difficulties of predicting what will make us happy in the future, the profound effect of cognitive biases on everything from playing the stock market to planning our next vacation—each of these can be understood only by knowing how the two systems shape our judgments and decisions. Engaging the reader in a lively conversation about how we think, Kahneman reveals where we can and cannot trust our intuitions and how we can tap into the benefits of slow thinking. He offers practical and enlightening insights into how choices are made in both our business and our personal lives—and how we can use different techniques to guard against the mental glitches that often get us into trouble. Winner of the National Academy of Sciences Best Book Award and the

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Los Angeles Times Book Prize and selected by The New York Times Book Review as one of the ten best books of 2011, *Thinking, Fast and Slow* is destined to be a classic.

Author is a leading theorist in negotiation and decision-making.

This book, first published in 2002, compiles psychologists' best attempts to answer important questions about intuitive judgment.

This volume presents the latest research on applying heuristics and biases to the areas of health, law, education, and organizations. Authors adopt a cross-disciplinary approach to study various theories.

Sample Text

This overview of subjective probability ranges from discussion of the philosophy of axiom systems through studies in the psychological laboratory to the real world of business decision-making.

In a world of increasing dependence on information technology, the prevention of cyberattacks on a nation's important computer and communications systems and networks is a problem that looms large. Given the demonstrated limitations of passive cybersecurity defense measures, it is natural to consider the possibility that deterrence might play a useful role in preventing cyberattacks against the United States and its vital interests. At the request of the Office of the Director of National Intelligence, the National Research Council undertook a two-phase project aimed to foster a broad, multidisciplinary examination of strategies for deterring cyberattacks on the United States and of the possible

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utility of these strategies for the U.S. government. The first phase produced a letter report providing basic information needed to understand the nature of the problem and to articulate important questions that can drive research regarding ways of more effectively preventing, discouraging, and inhibiting hostile activity against important U.S. information systems and networks. The second phase of the project entailed selecting appropriate experts to write papers on questions raised in the letter report. A number of experts, identified by the committee, were commissioned to write these papers under contract with the National Academy of Sciences. Commissioned papers were discussed at a public workshop held June 10-11, 2010, in Washington, D.C., and authors revised their papers after the workshop. Although the authors were selected and the papers reviewed and discussed by the committee, the individually authored papers do not reflect consensus views of the committee, and the reader should view these papers as offering points of departure that can stimulate further work on the topics discussed. The papers presented in this volume are published essentially as received from the authors, with some proofreading corrections made as limited time allowed.

An anthology of core readings on cognitive psychology. Some of the best and most influential papers by Amos Tversky, one of the most brilliant social science thinkers of the twentieth century. Amos Tversky (1937–1996) was a towering figure in the cognitive and decision sciences. His work was ingenious, exciting, and influential, spanning topics from intuition to statistics to behavioral

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economics. His long and extraordinarily productive collaboration with his friend and colleague Daniel Kahneman was the subject of Michael Lewis's best-selling book, *The Undoing Project: A Friendship that Changed Our Minds*. *The Essential Tversky* offers a selection of Tversky's best, most influential and accessible papers, "classics" chosen to capture the essence of Tversky's thought. The impact of Tversky's work is far reaching and long-lasting. In 2002, Kahneman, who drew on their joint work in his much-praised 2013 book, *Thinking, Fast and Slow* (and who contributes an afterword to this collection), was awarded the Nobel Prize in Economics for work done with Tversky. In *The Undoing Project*, Lewis (who contributes a foreword to this collection) describes his discovery that Tversky and Kahneman's thinking laid the foundation for *Moneyball*, his own ode to number-crunching. The papers collected in *The Essential Tversky* cover topics that include cognitive and perceptual bias, misguided beliefs, inconsistent preferences, risky choice and loss aversion decisions, and psychological common sense. Together, they offer nonspecialist readers an introduction to one of the most brilliant social science thinkers of the twentieth century.

The work of Daniel Kahneman and Amos Tversky has transformed the study of judgment and decision-making, and penetrated related disciplines such as economics, finance, marketing, law and medicine. In recognition of these achievements, Kahneman was awarded the Nobel Prize for Economics in 2003. This special issue presents ongoing research inspired by both Kahneman and

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Tversky. It covers many of the central themes the heuristics and biases of judgment and prediction, framing effects, assessments and predictions of utility that made their work so innovative. The specially written papers illustrate the range and depth of this work, and emphasise its continued relevance to current research. “Brilliant. . . . Lewis has given us a spectacular account of two great men who faced up to uncertainty and the limits of human reason.” —William Easterly, *Wall Street Journal* Forty years ago, Israeli psychologists Daniel Kahneman and Amos Tversky wrote a series of breathtakingly original papers that invented the field of behavioral economics. One of the greatest partnerships in the history of science, Kahneman and Tversky’s extraordinary friendship incited a revolution in Big Data studies, advanced evidence-based medicine, led to a new approach to government regulation, and made much of Michael Lewis’s own work possible. In *The Undoing Project*, Lewis shows how their Nobel Prize–winning theory of the mind altered our perception of reality.

Critical Thinking examines how we make judgments under uncertainty and how various biases can distort our consideration of evidence. Via everyday examples, Varda Liberman and Amos Tversky explore the insights of probability, causal relationships, and making inferences from samples with the goal of helping readers improve their intuitive reasoning.

Amos Tversky and Daniel Kahneman’s 1974 paper ‘Judgement Under Uncertainty: Heuristics and Biases’ is a landmark in the history of psychology. Though a

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mere seven pages long, it has helped reshape the study of human rationality, and had a particular impact on economics – where Tversky and Kahneman’s work helped shape the entirely new sub discipline of ‘behavioral economics.’ The paper investigates human decision-making, specifically what human brains tend to do when we are forced to deal with uncertainty or complexity. Based on experiments carried out with volunteers, Tversky and Kahneman discovered that humans make predictable errors of judgement when forced to deal with ambiguous evidence or make challenging decisions. These errors stem from ‘heuristics’ and ‘biases’ – mental shortcuts and assumptions that allow us to make swift, automatic decisions, often usefully and correctly, but occasionally to our detriment. The paper’s huge influence is due in no small part to its masterful use of high-level interpretative and analytical skills – expressed in Tversky and Kahneman’s concise and clear definitions of the basic heuristics and biases they discovered. Still providing the foundations of new work in the field 40 years later, the two psychologists’ definitions are a model of how good interpretation underpins incisive critical thinking.

The Fifth International Congress of Logic, Methodology and Philosophy of Science was held at the University of Western Ontario, London, Canada, 27 August to 2 September 1975. The Congress was held under the auspices of the International Union of History and Philosophy of Science, Division of Logic, Methodology and Philosophy of Science, and was sponsored by the

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National Research Council of Canada and the University of Western Ontario. As those associated closely with the work of the Division over the years know well, the work undertaken by its members varies greatly and spans a number of fields not always obviously related. In addition, the volume of work done by first rate scholars and scientists in the various fields of the Division has risen enormously. For these and related reasons it seemed to the editors chosen by the Divisional officers that the usual format of publishing the proceedings of the Congress be abandoned in favour of a somewhat more flexible, and hopefully acceptable, method of presentation. Accordingly, the work of the invited participants to the Congress has been divided into four volumes appearing in the University of Western Ontario Series in Philosophy of Science. The volumes are entitled, Logic, Foundations of Mathematics and Computability Theory, Foundational Problems in the Special Sciences, Basic Problems in Methodology and Linguistics, and Historical and Philosophical Dimensions of Logic, Methodology and Philosophy of Science. Thirty-five chapters describe various judgmental heuristics and the biases they produce, not only in laboratory experiments, but in important social, medical, and political situations as well. Most review multiple studies or entire subareas rather than describing single experimental studies.

Simple Heuristics That Make Us Smart invites readers to embark on a new journey into a land of rationality that differs from the familiar territory of cognitive science and economics. Traditional views of rationality tend to see

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decision makers as possessing superhuman powers of reason, limitless knowledge, and all of eternity in which to ponder choices. To understand decisions in the real world, we need a different, more psychologically plausible notion of rationality, and this book provides it. It is about fast and frugal heuristics--simple rules for making decisions when time is pressing and deep thought an unaffordable luxury. These heuristics can enable both living organisms and artificial systems to make smart choices, classifications, and predictions by employing bounded rationality. But when and how can such fast and frugal heuristics work? Can judgments based simply on one good reason be as accurate as those based on many reasons? Could less knowledge even lead to systematically better predictions than more knowledge? *Simple Heuristics* explores these questions, developing computational models of heuristics and testing them through experiments and analyses. It shows how fast and frugal heuristics can produce adaptive decisions in situations as varied as choosing a mate, dividing resources among offspring, predicting high school drop out rates, and playing the stock market. As an interdisciplinary work that is both useful and engaging, this book will appeal to a wide audience. It is ideal for researchers in cognitive psychology, evolutionary psychology, and cognitive science, as well as in economics and artificial intelligence. It will also inspire anyone interested in simply making good decisions.

The old saying goes, "To the man with a hammer, everything looks like a nail." But anyone who has done

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any kind of project knows a hammer often isn't enough. The more tools you have at your disposal, the more likely you'll use the right tool for the job - and get it done right. The same is true when it comes to your thinking. The quality of your outcomes depends on the mental models in your head. And most people are going through life with little more than a hammer. Until now. The Great Mental Models: General Thinking Concepts is the first book in The Great Mental Models series designed to upgrade your thinking with the best, most useful and powerful tools so you always have the right one on hand. This volume details nine of the most versatile, all-purpose mental models you can use right away to improve your decision making, productivity, and how clearly you see the world. You will discover what forces govern the universe and how to focus your efforts so you can harness them to your advantage, rather than fight with them or worse yet- ignore them. Upgrade your mental toolbox and get the first volume today. AUTHOR BIOGRAPHY Farnam Street (FS) is one of the world's fastest growing websites, dedicated to helping our readers master the best of what other people have already figured out. We curate, examine and explore the timeless ideas and mental models that history's brightest minds have used to live lives of purpose. Our readers include students, teachers, CEOs, coaches, athletes, artists, leaders, followers, politicians and more. They're not defined by gender, age, income, or politics but rather by a shared passion for avoiding problems, making better decisions, and lifelong learning. AUTHOR HOME Ottawa, Ontario, Canada

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This handbook in two parts covers key topics of the theory of financial decision making. Some of the papers discuss real applications or case studies as well. There are a number of new papers that have never been published before especially in Part II. Part I is concerned with Decision Making Under Uncertainty. This includes subsections on Arbitrage, Utility Theory, Risk Aversion and Static Portfolio Theory, and Stochastic Dominance. Part II is concerned with Dynamic Modeling that is the transition for static decision making to multiperiod decision making. The analysis starts with Risk Measures and then discusses Dynamic Portfolio Theory, Tactical Asset Allocation and Asset-Liability Management Using Utility and Goal Based Consumption-Investment Decision Models. A comprehensive set of problems both computational and review and mind expanding with many unsolved problems are in an accompanying problems book. The handbook plus the book of problems form a very strong set of materials for PhD and Masters courses both as the main or as supplementary text in finance theory, financial decision making and portfolio theory. For researchers, it is a valuable resource being an up to date treatment of topics in the classic books on these topics by Johnathan Ingersoll in 1988, and William Ziemba and Raymond Vickson in 1975 (updated 2nd edition published in 2006).

Bestselling author Dan Ariely reveals fascinating new insights into motivation—showing that the subject is far more complex than we ever imagined. Every day we work hard to motivate ourselves, the people we live with, the people who work for and do business with us. In this

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way, much of what we do can be defined as being “motivators.” From the boardroom to the living room, our role as motivators is complex, and the more we try to motivate partners and children, friends and coworkers, the clearer it becomes that the story of motivation is far more intricate and fascinating than we’ve assumed. Payoff investigates the true nature of motivation, our partial blindness to the way it works, and how we can bridge this gap. With studies that range from Intel to a kindergarten classroom, Ariely digs deep to find the root of motivation—how it works and how we can use this knowledge to approach important choices in our own lives. Along the way, he explores intriguing questions such as: Can giving employees bonuses harm productivity? Why is trust so crucial for successful motivation? What are our misconceptions about how to value our work? How does your sense of your mortality impact your motivation?

Human decision making involves problems which are being studied with increasing interest and sophistication. They range from controversial political decisions via individual consumer decisions to such simple tasks as signal discriminations. Although it would seem that decisions have to do with choices among available actions of any kind, there is general agreement that decision making research should pertain to choice problems which cannot be solved without a predecisional stage of finding choice alternatives, weighing evidence, and judging values. The ultimate objective of scientific research on decision making is two-fold: (a) to develop a theoretically sound technology for the optimal solution of

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decision problems, and (b) to formulate a descriptive theory of human decision making. The latter may, in turn, protect decision makers from being caught in the traps of their own limitations and biases. Recently, in decision making research the strong emphasis on well defined laboratory tasks is decreasing in favour of more realistic studies in various practical settings. This may well have been caused by a growing awareness of the fact that decision-behaviour is strongly determined by situational factors, which makes it necessary to look into processes of interaction between the decision maker and the relevant task environment. Almost inevitably there is a parallel shift of interest towards problems of utility measurement and the evaluation of consequences.

Decisions: You make hundreds every day, but do you really know how they are made? When can you trust fast, intuitive judgment, and when is it biased? How can you transform your thinking to help avoid overconfidence and become a better decision maker? Thinking, Fast and Slow ...in 30 Minutes is the essential guide to quickly understanding the fundamental components of decision making outlined in Daniel Kahneman's bestselling book, Thinking, Fast and Slow. Understand the key ideas behind Thinking, Fast and Slow in a fraction of the time: Concise chapter-by-chapter synopses Essential insights and takeaways highlighted Illustrative case studies demonstrate Kahneman's groundbreaking research in behavioral economics In Thinking, Fast and Slow, Daniel Kahneman, best-selling author and recipient of the Nobel Prize in Economics, has compiled his many years of groundbreaking research to offer practical knowledge

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and insights into how people's minds make decisions. Challenging the standard model of judgment, Kahneman aims to enhance the everyday language about thinking to more accurately discuss, diagnose, and reduce poor judgment. Thought, Kahneman explains, has two distinct systems: the fast and intuitive System 1, and the slow and effortful System 2. Intuitive decision making is often effective, but in *Thinking, Fast and Slow* Kahneman highlights situations in which it is unreliable-when decisions require predicting the future and assessing risks. Presenting a framework for how these two systems impact the mind, *Thinking, Fast and Slow* reveals the far-reaching impact of cognitive biases-from creating public policy to playing the stock market to increasing personal happiness-and provides tools for applying behavioral economics toward better decision making. A 30 Minute Expert Summary of *Thinking, Fast and Slow* Designed for those whose desire to learn exceeds the time they have available, the *Thinking, Fast and Slow* expert summary helps readers quickly and easily become experts ...in 30 minutes.

This book presents the definitive exposition of 'prospect theory', a compelling alternative to the classical utility theory of choice. Building on the 1982 volume, *Judgement Under Uncertainty*, this book brings together seminal papers on prospect theory from economists, decision theorists, and psychologists, including the work of the late Amos Tversky, whose contributions are collected here for the first time. While remaining within a rational choice framework, prospect theory delivers more accurate, empirically verified predictions in key test

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cases, as well as helping to explain many complex, real-world puzzles. In this volume, it is brought to bear on phenomena as diverse as the principles of legal compensation, the equity premium puzzle in financial markets, and the number of hours that New York cab drivers choose to drive on rainy days. Theoretically elegant and empirically robust, this volume shows how prospect theory has matured into a new science of decision making.

A compilation of different approaches--normative, descriptive, and prescriptive--develops this integrated analysis of decision-making that emphasizes the contributions of various disciplinary interests.

1. BACKGROUND The last twenty-five years have seen a large amount of psychological research in the area of behavioral decision theory. It followed the major breakthrough of decision theory that came with von Neumann and Morgenstern's Theory of Games and Economic Behavior in 1944. The key concepts are probability as a measure of uncertainty and utility as a measure of value and risk. The theory prescribes, given some behavioral axioms, that alternatives should be ranked in accordance with their expected utilities. Psychologists became interested in studying how people's decision behavior agreed with what was prescribed by the theory. Three broad areas for research developed, i. e. , research relating to each of the two concepts of probability and utility, and research relating to the interaction of the two in decision situations. The papers in this book have been selected to illustrate various aspects of how the concept of probability has

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been used in psychological experimentation. The early experiments were generated, as mentioned above, by an interest among psychologists to see how people evaluate uncertainty and quantify it in probabilistic terms. Many of these experiments set out to evaluate subjects' estimates of relative frequencies; these were situations where one had access to 'objective' answers. In the 1960's psychologists changed the focus of their studies to how people revise probabilistic judgments when they receive new information. In recent years there has been a growing interest in the cognitive processes by which people express their judgment in probabilistic terms.

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