Statistical Reasoning In Psychology And Education

Human ReasoningRules for ReasoningPsychology of ReasoningThe Psychology of ReasoningThe Psychology of Deductive Reasoning (Psychology Revivals)Rationality and ReasoningPsychology of ReasoningThe Psychology of ReasoningThe Development of Thinking and ReasoningThinking and Reasoning (Psychology Revivals)Thinking and ReasoningPsychology of ReasoningDeductive Reasoning and StrategiesThe Psychology of ThinkingReflections on ReasoningNew Paradigm Psychology of ReasoningThe Psychology of ReasoningThe Developmental Psychology of Reasoning and Decision-MakingReasoning, Rationality and Dual ProcessesStatistical Reasoning in Psychology and Education, Workbook David E Over Richard E. Nisbett Ken Manktelow Walter Bowers Pillsbury Jonathan Evans Jonathon St. B.T. Evans Peter Cathcart Wason Walter Bowers Pillsbury Pierre Barrouillet Jonathan St. B. T. Evans Jonathan St B. T. Evans Peter Cathcart Wason Walter Schaeken John Paul Minda Raymond S. Nickerson Shira Elqayam Alfred Binet Henry Markovits Jonathan Evans Edward W. Minium

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Evans Jonathon St. B.T. Evans Peter Cathcart Wason Walter Bowers Pillsbury Pierre Barrouillet Jonathan St. B. T. Evans Jonathan St B. T. Evans Peter Cathcart Wason Walter Schaeken John Paul Minda Raymond S. Nickerson Shira Elqayam Alfred Binet Henry Markovits Jonathan Evans Edward W. Minium

this element is on new developments in the psychology of reasoning that raise or address philosophical questions in traditional studies in the psychology of reasoning the focus was on inference from arbitrary assumptions and not at all from beliefs and classical binary logic was presupposed as the only standard for human reasoning but recently a new bayesian paradigm has emerged in the discipline this views ordinary human reasoning as mostly inferring probabilistic conclusions from degrees of beliefs or from hypothetical premises relevant to a purpose at hand and as often about revising or updating degrees of belief this element also covers new formulations of dual process theories of the mind stating that there are two types of mental processing one rapid and intuitive and shared with other animals and the other slow and reflective and more characteristic of human beings the final topic covered is the new developments and rationality

this book examines two questions do people make use of abstract rules such as logical and statistical rules when making inferences in everyday life can such abstract rules be changed by training contrary to the spirit of reductionist theories from behaviorism to connectionism there is ample evidence that people do make use of abstract rules of inference including rules of logic statistics causal deduction and cost benefit analysis such rules moreover are easily alterable by instruction as it occurs in classrooms and in brief laboratory training sessions the fact that purely formal training can alter them and that those taught in one content domain can escape to a quite different domain for which they are also highly applicable shows that the rules are highly abstract the major implication for cognitive science is that people are capable of operating with abstract rules even for concrete mundane tasks

therefore any realistic model of human inferential capacity must reflect this fact the major implication for education is that people can be far more broadly influenced by training than is generally supposed at high levels of formality and abstraction relatively brief training can alter the nature of problem solving for an infinite number of content domains

this collection brings together a set of specially commissioned chapters from leading international researchers in the psychology of reasoning its purpose is to explore the historical philosophical and theoretical implications of the development of this field taking the unusual approach of engaging not only with empirical data but also with the ideas and concepts underpinning the psychology of reasoning this volume has important implications both for psychologists and other students of cognition including philosophers sub fields covered include mental logic mental models rational analysis social judgement theory game theory and evolutionary theory there are also specific chapters dedicated to the history of syllogistic reasoning the psychology of reasoning as it operates in scientific theory and practice brunswickian approaches to reasoning and task environments and the implications of popper s philosophy for models of behaviour testing this cross disciplinary dialogue and the range of material covered makes this an invaluable reference for students and researchers into the psychology and philosophy of reasoning

originally published in 1982 this was an extensive and up to date review of research into the psychology of deductive reasoning jonathan evans presents an alternative theoretical framework to the rationalist approach which had dominated much of the published work in this field at the time the review falls into three sections the first is concerned with elementary reasoning tasks in which response latency is the prime measure of interest the second and third sections are concerned with syllogistic and propositional reasoning respectively in which interest has focused on the explanation of frequently observed logical errors in an extended discussion it is argued that reasoning processes are content specific and give little indication of the operation of any underlying

system of logical competence finally a dual process theory of reasoning with broad implications and connections with other fields of psychology is elaborated and assessed in the light of recent evidence

this book addresses an apparent paradox in the psychology of thinking on the one hand human beings are a highly successful species on the other intelligent adults are known to exhibit numerous errors and biases in laboratory studies of reasoning and decision making there has been much debate among both philosophers and psychologists about the implications of such studies for human rationality the authors argue that this debate is marked by a confusion between two distinct notions a personal rationality rationality1 evans and over argue that people have a high degree of rationality1 but only a limited capacity for rationality2 the book re interprets the psychological literature on reasoning and decision making showing that many normative errors by abstract standards reflect the operation of processes that would normally help to achieve ordinary goals topics discussed include relevance effects in reasoning and decision making the influence of prior beliefs on thinking and the argument that apparently non logical reasoning can reflect efficient decision making the authors also discuss the problem of deductive competence whether people have it and what mechanism can account for it as the book progresses increasing emphasis is given to the authors dual process theory of thinking in which a distinction between tacit and explicit cognitive systems is developed it is argued that much of human capacity for rationality1 is invested in tacit cognitive processes which reflect both innate mechanisms and biologically constrained learning however the authors go on to argue that human beings also possess an explicit thinking system which underlies their unique if limited capacity to be rational

the psychology of reasoning by walter bowers pillsbury is a seminal work in the field of psychology particularly focusing on the cognitive processes involved in reasoning published in 1910 pillsbury s book delves into the intricate workings of the human mind as

it engages in logical thinking and problem solving in this book pillsbury explores various aspects of reasoning including deductive and inductive reasoning decision making and problem solving strategies he examines how individuals form judgments draw conclusions and make sense of the world around them through the lens of psychological research and experimentation pillsbury delves into the role of perception memory and language in reasoning highlighting the interplay between these cognitive processes in shaping our thought patterns and decision making abilities he also discusses the influence of emotions biases and social factors on reasoning shedding light on the complexities of human cognition throughout the book pillsbury presents a comprehensive overview of the theories and empirical findings related to reasoning drawing on insights from psychology philosophy and logic he provides case studies experimental evidence and theoretical frameworks to support his arguments offering readers a rich and nuanced understanding of the psychological mechanisms underlying reasoning the psychology of reasoning is not only a scholarly treatise on the subject but also a practical resource for students researchers and practitioners interested in understanding the nature of human thought and rationality pillsbury s work continues to be relevant today serving as a foundation for further exploration and inquiry into the mysteries of the mind

thinking and reasoning are key activities for human beings in this book a distinguished set of contributors provides a wide readership with up to date scientific advances in the developmental psychology of thinking and reasoning both at the theoretical and empirical levels the first part of the book illustrates how modern approaches to the study of thinking and reasoning have gone beyond the piagetian legacy through the investigation of avenues previously not explored and by demonstrating that young children have higher capacities than was assumed within the piagetian tradition the second part focuses upon theoretical and empirical investigations of the interplay between logic and intuition in reasoning and decision making and how these forms of thinking evolve with age through the general framework of what is known as dual process theories contrary to piaget s claim it becomes apparent that elaborate

adult reasoning could rely on some form of intuition the development of thinking and reasoning provides psychologists educators and everyone interested in child development with an integrated and up to date series of chapters written by prominent specialists in the areas of thinking reasoning and decision making

the subject of thinking is the oldest in the whole science of psychology going back to well before the separation of the disciplines of philosophy and psychology originally published in 1983 this collection of up to date critical essays about thinking with particular emphasis on reasoning is written from the perspective of psychologists who are themselves actively engaged in research into the nature of human thought the editor s introduction identifies the major issues which have traditionally concerned students of human thought and provides an historical background it describes how at first the subject was studied by introspection and how this method fell into disrepute at the end of last century a satisfactory alternative has not yet emerged although much recent work is based on the information processing model which sees the brain as a sophisticated computer consequently the papers presented in this volume deal with a wide range of issues and a number of different experimental tasks and paradigms they cover most current approaches to the theory and methodology of cognitive psychology including problem solving the relationship between language and thought and reasoning

our extraordinary capacity to reason and solve problems sets us aside from other animals but our evolved thinking processes also leave us susceptibile to bias and error the study of thinking and reasoning goes back to aristotle and was one of the first topics to be studied when psychology separated from philosophy in this very short introduction jonathan evans explores cognitive psychological approaches to understanding the nature of thinking and reasoning problem solving and decision making he shows how our problem solving capabilities are hugely dependent on also having the imagination to ask the right questions and the ability to

see things from a completely new perspective beginning by considering the approaches of the behaviourists and the gestalt psychologists he moves on to modern explorations of thinking including hypothetical thinking conditionals deduction rationality and intuition covering the role of past learning iq and cognitive biases evans also discusses the idea that there may be two different ways of thinking arising from our evolutionary history about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

at the core of the psychology of reasoning is a vigorous discussion that incorporates various illustrations some of them humorous all of them fascinating of the use of reason under a wide variety of different conditions particular emphasis is placed on the difficulties involved in dealing with negatively marked information that must be combined and used with other information for reaching conclusions thorough treatment is given as well to the search for plausible contexts that will render anomalous or ambiguous statements sensible

this book brings together both theoretical and empirical research directed toward the role of strategies in deductive reasoning it offers the first systematic attempt to discuss the role of strategies for deductive reasoning the empirical chapters correspond well with the main issues in the study of deduction namely propositional reasoning spatial reasoning and syllogistic reasoning in addition several chapters present a theoretical analysis of deduction related to the concept strategy the book also presents data about the role of strategies for statistical and social reasoning this book will be of interest to researchers and students of cognitive psychology it will also be of value to people working in artificial intelligence because it highlights results on how humans use strategies while

tackling deductive puzzles

how do we define thinking is it simply memory perception and motor activity or perhaps something more complex such as reasoning and decision making this book argues that thinking is an intricate mix of all these things and a very specific coordination of cognitive resources divided into three key sections there are chapters on the organization of human thought general reasoning and thinking and behavioural outcomes of thinking these three overarching themes provide a broad theoretical framework with which to explore wider issues in cognition and cognitive psychology and there are chapters on motivation and language plus a strong focus on problem solving reasoning and decision making all of which are central to a solid understanding of this field the book also explores the cognitive processes behind perception and memory how we might differentiate expertise from skilled competent performance and the interaction between language culture and thought

first published in 1986 reflections on reasoning is a clearly written introduction that guides high school and college students teachers and parents through straightforward discussions on the nature of logic belief and argument while examining the nature of reasoning nickerson offers practical examples from everyday life to illustrate how we can become more effective and self aware in our reasoning

in recent years the psychology of reasoning has undergone radical change which can only be seen as a kuhn style scientific revolution this shift has been dubbed new paradigm for years psychologists of reasoning focused on binary truth values and regarded the influence of belief as a bias in contrast to this the new paradigm puts probabilities and subjective degrees of belief centre stage it also emphasises subjective psychological value or utility the way we reason within our own social environment social pragmatics and the crucial role of dual process theories such theories distinguish between fast intuitive processes and effortful

processes which enable hypothetical thinking the new paradigm aims to integrate the psychology of reasoning with the study of judgement and decision making leading to a much more unified field of higher mental processing this collection showcases these recent developments with chapters on topics such as the difference between deduction and induction a bayesian formulation of faint praise the role of emotion in reasoning and the relevance of psychology of reasoning to moral judgement this book was originally published as a special issue of thinking reasoning

logical thinking is a critically important cognitive skill it is not just essential for mathematical and scientific understanding it is also of prime importance when trying to navigate our complex and increasingly sophisticated world written by world class researchers in the field the developmental psychology of reasoning and decision making describes the ways that children learn to reason and how reasoning can be used to overcome the influence of beliefs and intuitions the chapters in this edited collection focus on the new revolutionary paradigm in reasoning and cover the recent research on the development of reasoning in two important areas cognitive abilities required to reason well and how these abilities develop in children and adolescents recent empirical data showing the effect intuition and prior belief have on reasoning even when the outcome is inappropriate different theoretical and empirical perspectives from recent piagetian theory mental models and gist processing are examined along with empirical results looking at specific aspects of reasoning in children the key theme of the book is to better understand how reasoning develops not only through examining logical reasoning but also the nature of the interactions between people s intuitions and their reasoning abilities the developmental psychology of reasoning and decision making provides an overview of the main theories and key empirical results related to the development of reasoning and should be of particular interest to students and researchers in developmental psychology and education along with those in cognitive psychology

in the world library of psychologists series international experts themselves present career long collections of what they judge to be their finest pieces extracts from books key articles salient research findings and their major theoretical and practical contributions jonathan st b t evans is amongst the foremost cognitive psychologists of his generation having been influential in spearheading developments in the psychological study of reasoning from its very beginnings in the 1970s up to the present day this volume of self selected papers recognises professor evan s major contribution to the psychological study of thinking and reasoning by bringing together his most influential and important works early selections in the book focus upon experimental studies of reasoning matching bias in the wason selection task belief bias in syllogistic reasoning and also seminal work on the understanding of conditional statements the later selections include evans work on more general forms of dual process and dual system theory and his recent account of two minds in one brain the volume also contains chapters which highlight evans contribution to the topic of human rationality and also his influence on the development of the new paradigm in the psychology of reasoning the key developments in the psychology of reasoning are paralleled by those in evans s own intellectual history and the book will therefore make essential reading for all researchers in the psychology of reasoning and a wider audience of graduate and upper level undergraduate students with an interest in reasoning and or dual process theory

provides students of psychology education and behavioral science with an introduction to statistics which emphasizes the relationship between statistical theory and the reality of research fosters an understanding of fundamental properties and uses of elementary techniques appealing to intuitive understanding and common experience develops the merit of a statistical approach on logical rather than mathematically sophisticated grounds

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