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The study of human logical reasoning goes back to Aristotle and it has been investigated by means of psychological experiments since the early days of experimental psychology. More recently, the...

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But, at the time, the phenomenon

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convinced several psychologists that formal logic could not explain human reasoning. Formal logic, by definition, is concerned solely with the logical form of assertions, not their content. Yet, the selection task showed that content mattered just as much as form in reasoning (Wason and Johnson- Laird, 1972).

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Inferences are steps in reasoning, moving from premises to logical consequences; etymologically, the word infer means to "carry forward". Inference is theoretically traditionally divided into deduction and induction, a distinction that in Europe dates at least to Aristotle. Deduction is inference deriving logical conclusions from premises known or assumed to be

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true, with the laws of valid inference being studied in logic. Induction is inference from particular premises to a universal conclusion

An interdisciplinary collection of major essays on reasoning by a well-known group of philosophers, psychologists and cognitive scientists.

This book brings together an influential sequence of papers that argue for a radical re-conceptualisation of the psychology of inference, and of cognitive science more generally. The papers demonstrate that the thesis that logic provides the basis of human inference is central to much cognitive science, although the

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commitment to this view is often implicit. They then note that almost all human inference is uncertain, whereas logic is the calculus of certain inference. This mismatch means that logic is not the appropriate model for human thought. Oaksford and Chater's argument draws on research in computer science, artificial intelligence and philosophy of science, in addition to experimental psychology. The authors propose that probability theory, the calculus of uncertain inference, provides a more appropriate model for human thought. They show how a probabilistic account can provide detailed explanations of experimental data on Wason's selection task, which many have viewed as providing a paradigmatic demonstration of human irrationality. Oaksford and Chater show that people's behaviour appears irrational only from a logical point of view, whereas it is entirely

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rational from a probabilistic perspective. The shift to a probabilistic framework for human inference has significant implications for the psychology of reasoning, cognitive science more generally, and for our picture of ourselves as rational agents.

Biological and Cultural Bases of Human Inference addresses the interface between social science and cognitive science. In this volume, Viale and colleagues explore which human social cognitive powers evolve naturally and which are influenced by culture. Updating the debate between innatism and culturalism regarding human cognitive abilities, this book represents a much-needed articulation of these diverse bases of cognition. Chapters throughout the book provide social science and philosophical reflections, in addition to the perspective of evolutionary theory and the

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central assumptions of cognitive science. The overall approach of the text is based on three complementary levels: adult performance, cognitive development, and cultural history and prehistory. Scholars from several disciplines contribute to this volume, including researchers in cognitive, developmental, social and evolutionary psychology, neuropsychology, cognitive anthropology, epistemology, and philosophy of mind. This contemporary, important collection appeals to researchers in the fields of cognitive, social, developmental, and evolutionary psychology and will prove valuable to researchers in the decision sciences.

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Errors of Reasoning is the long-awaited continuation of the author's investigation of the logic of cognitive systems. The present focus is the individual human reasoner operating under the conditions and pressures of real life with capacities and resources the natural world makes available to him. The ensuing logic is thus agent-centred, goal-directed, and time-and-action oriented. It is also as

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psychologically real a logic as consistent with lawlike regularities of the better-developed empirical sciences of cognition. A point of departure for the book is that good reasoning is typically reasoning that does not meet the orthodox logician's requirements of either deductive validity or the sort of inductive strength sought for by the statistico-empirical sciences. A central objective here is to fashion a logic for this "third-way" reasoning. In so doing, substantial refinements are proposed for mainline treatments of nonmonotonic, defeasible, autoepistemic and default reasoning. A further departure from orthodox orientations is the eschewal of all idealizations short of those required for the descriptive adequacy of the relevant parts of empirical science. Also banned is any unearned assumption of a logic's normative authority to judge inferential behaviour as it actually occurs on the

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ground. The logic that emerges is therefore a naturalized logic, a proposed transformation of orthodox logics in the manner of the naturalization, more than forty years ago, of the traditional approaches to analytic epistemology. A byproduct of the transformation is the abandonment of justification as a general condition of knowledge, especially in third-way contexts. A test case for this new approach is an account of erroneous reasoning, including inferences usually judged fallacious, that outperforms its rivals in theoretical depth and empirical sensitivity. Errors of Reasoning is required reading in all research communities that seek a realistic understanding of human inference: Logic, formal and informal, AI and the other branches of cognitive science, argumentation theory, and theories of legal reasoning. Indeed the book is a standing challenge to all

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normatively idealized theories of assessable human performance. John Woods is Director of The Abductive Systems Group at the University of British Columbia, and was formerly the Charles S. Peirce Professor of Logic in the Group on Logic and Computation in the Department of Computer Science, King's College London. He is author of *Paradox and Paraconsistency* (2003) and with Dov Gabbay, of *Agenda Relevance* (2003) and *The Reach of Abduction* (2005). His pathbreaking *The Logic of Fiction* appeared in 1974, with a second edition by College Publications, 2009.

Deductive reasoning is widely regarded as an activity central to human intelligence, and as such has attracted an increasing amount of psychological study in recent years. In this first major survey of the field for over a decade, the authors provide a

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detailed and balanced review of all the main kinds of deductive reasoning task studied by psychologists. Topics covered include conditional and disjunctive reasoning, the Wason selection task, relational inference and reasoning with syllogisms and quantifiers. Throughout the review, a careful distinction is drawn between the main empirical findings in the field and the major theoretical approaches proposed to account for these findings. Discussion of experimental findings is organized around three central questions: What is the extent and limitation of human competence in deductive reasoning? What factors are responsible for systematic errors and biases on reasoning tasks? How is human reasoning influenced by the content in which logical problems are presented? Four major classes of theory are discussed throughout the book. The long established theory that people have a

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mental logic comprised of formal rules of inference is contrasted particularly with the recently developed mental model theory of deductive reasoning.

Explanations of many phenomena, especially biases, are also considered in terms of heuristic processes. Finally, consideration is given to accounts of content and context effects based upon the use of domain sensitive rules or schemas. The book ends with a discussion of research on deductive reasoning in the context of the current debate about human rationality.

A new proposal for integrating the employment of formal and empirical methods in the study of human reasoning. In *Human Reasoning and Cognitive Science*, Keith Stenning and Michiel van Lambalgen—a cognitive scientist and a logician—argue for the indispensability of

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modern mathematical logic to the study of human reasoning. Logic and cognition were once closely connected, they write, but were “divorced” in the past century; the psychology of deduction went from being central to the cognitive revolution to being the subject of widespread skepticism about whether human reasoning really happens outside the academy. Stenning and van Lambalgen argue that logic and reasoning have been separated because of a series of unwarranted assumptions about logic. Stenning and van Lambalgen contend that psychology cannot ignore processes of interpretation in which people, wittingly or unwittingly, frame problems for subsequent reasoning. The authors employ a neurally implementable defeasible logic for modeling part of this framing process, and show how it can be used to guide the design of experiments and interpret results.

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