

APPLIED LOGIC SERIES **30**

Inference on the Low Level

An Investigation into Deduction, Nonmonotonic Reasoning, and the Philosophy of Cognition

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Inference On The Low Level

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Summary : Free inference on the low level pdf download - in contrast to the prevailing tradition in epistemology the focus in this book is on low-level inferences i e those inferences that we are usually not consciously aware of and that we share with the cat nearby which infers that the bird which she sees picking grains from the dirt is able to fly presumably such inferences are not generated by explicit logical reasoning but logical methods can be used to describe and analyze such inferences part 1 gives a purely system-theoretic explication of belief and inference part 2 adds a reliabilist theory of justification for inference with a qualitative notion of reliability being employed part 3 recalls and extends various systems of deductive and nonmonotonic logic and thereby explains the semantics of absolute and high reliability in part 4 it is proven that qualitative neural networks are able to draw justified deductive and nonmonotonic inferences on the basis of distributed representations this is derived from a soundness completeness theorem with regard to cognitive semantics of nonmonotonic reasoning the appendix extends the theory both logically and ontologically and relates it to a goldman s reliability account of justified belief

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