



## Inference on the Low Level: An Investigation into Deduction, Nonmonotonic Reasoning, and the Philosophy of Cognition (Hardback)

By Hannes Leitgeb

Springer-Verlag New York Inc., United States, 2004. Hardback. Condition: New. 2004 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.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..



[READ ONLINE](#)  
[ 9.7 MB ]

### Reviews

*This pdf may be really worth a read, and superior to other. It generally does not price too much. Once you begin to read the book, it is extremely difficult to leave it before concluding.*

-- **Dylan Schaden**

*This is an remarkable publication that I have ever read. Indeed, it is actually engage in, nevertheless an interesting and amazing literature. I am just happy to inform you that this is the best publication i have got go through during my personal lifestyle and may be he finest ebook for actually.*

-- **Toby Baumbach**