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Autor: Stenning Keith/ Lascarides Alex/ Calder Jo

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This introduction to the interdisciplinary study of cognition takes the novel approach of bringing several disciplines to bear on the subject of communication. Using the perspectives of linguistics, logic, AI, philosophy, and psychology_the component fields of cognitive science_to explore topics in human communication in depth, the book shows readers and students from any background how these disciplines developed their distinctive views, and how those views interact.

The book introduces some sample phenomena of human communication that illustrate the approach of cognitive science in understanding the mind, and then considers theoretical issues, including the relation of logic and computation and the concept of representation. It describes the development of a model of natural language and explores the link between an utterance and its meaning and how this can be described in a formal way on the basis of recent advances in AI research. It looks at communication employing graphical messages and the similarities and differences between language and diagrams. Finally, the book considers some general philosophical critiques of computational models of mind.

The book can be used at a number of different levels. A glossary, suggestions for further reading, and a Web site with multiple-choice questions are provided for nonspecialist students; advanced students can supplement the material with readings that take the topics into greater depth.