The focus of this book is on conceptual and philosophical issues of perception including the classic notion of unconscious inferences in perception.

* How can we conceive of the relation between the available sensory input and our perceptual achievement?

* Does our perceptual system exploit the sensory input in terms of innately determined knowledge of properties of the physical world?

* How can we use Bayesian principles to provide key insights into the scope and limits of perception?

Perception is at the interface of the mental and the physical. The process of perception cannot be understood as simply providing some kind of picture of the physical world; rather the perceptual system strongly relies on built-in interpretations and exhibits inference-like and constructive-like properties.

In Perception and the Physical World an international field of renowned experts in vision research, philosophy and ecological physics focus on foundational and conceptual issues concerning the nature of perception, particularly unconscious inference, and highlight recent advances in the field.