

## Introduction 1

- 1 The Nature and Science of Perception 5
  - 1.1 Perceptual Properties: Sensory Effects and the Representational Structure of Perception 5
  - 1.2 Sensory Aggregates and the Projection of Knowledge 9
  - 1.3 Normal Conditions and Experimental Observation 11
  - 1.4 Perceptual Properties at Face Value: The Phenomenal Basis of Science 14
  - 1.5 Appearances, Meaning and Relations 16
  - 1.6 Observing Phenomena “from the Outside”: Series and Order of Appearances 21
  
- 2 Phenomenology in Philosophy and Science of Perception 25
  - 2.1 The Empirical Grammar of Perception in Brentano 25
    - 2.1.1 The Elements of Phenomena 30
    - 2.2 The Neutral Science of Appearances in Stumpf 34
      - 2.2.1 The Immanent Structural Laws of Appearances 38
    - 2.3 Husserl and the Form of the Theories of Perception 41
    - 2.4 Phenomenal Reality and Psychology of Perception in Metzger 46
    - 2.5 Koffka on the Phenomenological Questions of Perception Science 49
    - 2.6 Experience, Science and Philosophy in Kohler 53
  
- 3 The Variety of the Phenomenology of Perception 56
  - 3.1 Meinong on Color Manifold 57
  - 3.2 At the Borders of Conceptual and Experimental Issues: Brentano and Rubin 63
    - 3.2.1 The Phenomenal Array of Experience: Boundaries and Continua in Brentano 64
    - 3.2.2 Meaning in the Perceptual Field: Figure-Ground and Contour in Rubin 68
  - 3.3 Katz: The Phenomenological Method and Color and Touch Modes of Appearances 76
  - 3.4 Phenomenological Questions and Evidence 88
    - 3.4.1 Wertheimer: The Perception of Movement and the “Natural” Organization 88
    - 3.4.2 Goldmeier: The Phenomenal Content of Similarity and the Structure of Visual Objects 98
  - 3.5 Experimental Phenomenology 107
    - 3.5.1 Kanizsa: The Independence of Perception and the Autonomy of Vision Science 108
    - 3.5.2 Bozzi: The Epistemological Foundation of Experimental Phenomenology 113
  
- 4 Physics and Geometry of Stimuli and Phenomenology 123
  - 4.1 The Stimulus Error. Unobservable Posits and the Variety of Data 124
    - 4.1.1 Phenomenal Structures and Comparative Judgements 128
  - 4.2 Perceptual and Geometrical Properties of Visual Figures 132
  - 4.3 The Variety of Stimulus Errors 135
  - 4.4 The Concomitant Variation of Stimuli and the Phenomenal Structures in Michotte 137
    - 4.4.1 Phenomenal Mechanical Properties: Perception of Causality 142
  - 4.5 Velocity and Time in the Perception of Movement 145
  - 4.6 Perceptual Forms of Movement and Naive Physics 148
  - 4.7 The Logic of Experimental Phenomenology 152
  
- 5 Phenomenal Structures of Space 161
  - 5.1 The Phenomenal Space Continuum 164
  - 5.2 The Self as Spatial Part: Meaning and Relations in Space 172
  - 5.3 Forms of Visual Space 174

5.4	The Ordered Manifold of Depth	177
5.5	The Kinematics of Visual Things in Space	184
5.6	The Intrinsic Geometry of Phenomena	191
5.6.1	The Elements of the Geometry of Phenomena	193
5.7	The Coordinate Systems of Movements and Spatial Appearances	196
5.8	A Model of Perceptual Geometry	199
6.1	Temporal Displacement and the Nature of Temporal Intervals	208
6.2	The Qualitative Order of Time	211
6.3	Temporal Grouping	213
6.4	The Structure of Phenomenal Permanence	215
7	Criticisms and Appraisal	219
7.1	The Phenomenological Meaning of Normal Illumination	219
7.2	Meta-theory and Empirical Science	225
7.3	Perceiving the Difference and the Phenomenal Basis of Judgements	228
7.3.1	Absolute Properties of Appearances	236
7.4	Phenomenological Commitments	240
	Conclusions	258
	References	265
	Index of Names and Subjects	285