Optical Texture 133
The Ground and Perceptual Constancy 138
Distance and the Layout of Space 138
Perceived Size and Distance 138
Size Constancy 140
Intersection of Surfaces 141
Corner 141
Edge 141
Summary 144

10 Lateral or Parallactic Motion 145
Motion Parallax 145
Optic Flow, Velocity Gradients 146
Motion Perspective 148
Dynamic Occlusion 153
Continuous Perspective Transformations 154
Summary 155

11 Motion in Depth 157
The Stimulus 157
Size-Change 157
Expansion/Contraction 159
Apparent Object Motions 162
Kinetic Invariance Hypothesis 162
KIH and Size Constancy 163
Rigidity and the Implicit Scales of Space 164
Movement of Perceiver 165
Heading and Focus of Expansion 165
Time-to-Contact and Time-to-Passage 166
Information for Controlling Activity 167
Visual Kinesthesia 168
Balance and Stance 168
Summary 171

12 Perceived Object Motions 173
Rotating Stimuli 173
Rotating Trapezoidal Window 173
Kinetic Depth Effect 174
Stereokinetic Effect 177
Johansson’s Vector Analysis 177
Unity Principle 179
Rigidity Principle 179
Common and Relative Vectors 180
Nonrigid Perceptions: Bending, Folding, and Stretching 183
Computation or Artificial Intelligence Approach 184
Patterns of Deformation: Differential Invariants of Optic Flow 185
Summary 188

13 Detecting Motion 189
Motion in the Frontal Plane 189
Linear Motion Detector 191