

Contents

Preface	vii
Memorial	xi
1. Structure and Development of the Visual System	
<i>T. L. Hickey and Jean D. Peduzzi</i>	
I. Introduction	1
II. The Eye	3
III. The Lateral Geniculate Nucleus	10
IV. The Visual Cortex	25
V. Epilogue	34
References	36
2. Motor Aspects of Visual Development in Infancy	
<i>Richard N. Aslin</i>	
I. Introduction	43
II. The Accommodative Response System	44
III. The Pupillary Response System	61
IV. Eye Movement Response Systems	66
V. Summary and Conclusions	105
References	107
3. Infant Visual Psychophysics	
<i>Martin S. Banks and James L. Dannemiller</i>	
I. Introduction	115
II. Psychophysics and Its Techniques	116

III. Visual Acuity	129
IV. Contrast Sensitivity	145
V. Light and Dark Adaptation	160
VI. Temporal Vision	167
VII. Conclusions	175
References	176
4. Infant Color Vision and Color Perception	
<i>Davida Y. Teller and Marc H. Bornstein</i>	
I. Introduction	185
II. The Study of Color Vision	187
III. Spectral Sensitivity	193
IV. Wavelength Discrimination	204
V. Attention, Perception, and Cognition	218
VI. Review and Preview	230
References	232
5. Taste and Olfaction	
<i>Charles Crook</i>	
I. Introduction	237
II. Reactions to Taste Stimuli	239
III. Reactions to Odor	247
IV. The Place of Chemoreception in Early Development	253
V. Concluding Remarks	259
References	260
6. Touch, Motion, and Proprioception	
<i>Judith E. Reisman</i>	
I. Introduction	265
II. Tactile Perception	266
III. The Vestibular System	281
IV. The Proprioceptive System	287
V. Soothing and Stimulation Studies	291
VI. Summary	295
References	296
Index	305