

# Contents

*Preface*

vii

## **PART I. Object Representation and Recognition**

1. **Cortical Visual Areas and the Neurobiology of Higher Visual Processes** 3  
*Alan Cowey*
2. **Issues of Representation in Object Vision** 33  
*D. I. Perrett, M.W. Oram, J. K. Hietanen, and P. J. Benson*
3. **Intermediate Visual Processing and Visual Agnosia** 63  
*Glyn W. Humphreys, M. Jane Riddoch, Nick Donnelly, Tom Freeman, Muriel Boucart, and Hermann M. Muller*
4. **Category Specificity in Visual Recognition** 103  
*Freda Newcombe, Ziyah Mehta, and Edward H.F. de Haan*
5. **Specialization within Visual Object Recognition: Clues from Prosopagnosia and Alexia** 133  
*Martha J. Farah*

**PART II. Visual Word Recognition**

6. **Functional Mechanisms in Pure Alexia: Evidence from Letter Processing** 149  
*Martin Arguin and Daniel N. Bub*
7. **Neglect Dyslexia: Attention and Word Recognition** 173  
*Marlene Behrmann*

**PART III. Top-Down Processes in Vision: Attention and Imagery**

8. **Visual Attention** 217  
*Michael I. Posner, Peter G. Grossenbacher, and Paul E. Compton*
9. **Dissociating Components of Visual Attention: A Neurodevelopmental Approach** 241  
*Mark H. Johnson*
10. **Visual Mental Images in the Brain: Current Issues** 269  
*Stephen M. Kosslyn and Lisa M. Shin*

**PART IV. High-level Vision With and Without Awareness**

11. **Mechanisms of Implicit Reading in Alexia** 299  
*H. Branch Coslett and Eleanor M. Saffran*
12. **Covert Recognition** 331  
*Andrew W. Young*
13. **Implicit Perception in Visual Neglect: Implications for Theories of Attention** 359  
*Marcie A. Wallace*

- Author Index** 371
- Subject Index**