

Contents

| | |
|---|------------|
| 1. Human Sidedness | 1 |
| 2. Measurement | 12 |
| Proficiency and Preference | 13 |
| Hand Preference | 18 |
| Foot Preference | 21 |
| Eye Preference | 23 |
| Ear Preference | 27 |
| Quantification of Lateral Preference Behaviors | 30 |
| 3. Population Characteristics | 32 |
| Distributional Characteristics within Indexes of Lateral Preference | 35 |
| Distributional Characteristics across Indexes of Lateral Preference | 44 |
| 4. Physiological, Biological, and Cerebral Asymmetries | 50 |
| Physiological Asymmetries | 50 |
| Cerebral Asymmetries | 52 |
| Biological Asymmetries | 60 |
| One-Sidedness | 62 |
| 5. Genetic Approaches | 69 |
| Genetic Explanations for Hand Preference | 70 |
| Genetic Explanations for Sidedness Formation | 81 |
| Appendix | 90 |
| 6. Social and Cultural Environment | 93 |
| The Right-Sided World Hypothesis | 96 |
| Cultural Influences | 107 |
| 7. Birth Stress | 116 |

| | |
|---|------------|
| 8. Special Populations | 128 |
| Neurological Injury | 129 |
| Psychopathy, Emotional Instability, and Criminality | 133 |
| Cognitive Deficits | 137 |
| 9. Reading | 147 |
| 10 Cognitive Abilities | 157 |
| 11. Sensorimotor Coordination | 176 |
| Hand-Eye Coordination | 176 |
| Sports Performance | 181 |
| 12. Sensory Preferences | 192 |
| Eye Preference | 192 |
| Ear Preference | 213 |
| 13. Reformulation | 220 |
| References | 233 |
| Author Index | 267 |
| Subject Index | 277 |