

# Contents

Abbreviations *xiii*

Glossary *xv*

Epigraph *xix*

## Part I **Foundations of memory systems**

1 The history of memory systems 3

2 The history of the brain 39

## Part II **Architecture of vertebrate memory**

3 The reinforcement memory systems of early animals 85

4 The navigation memory system of early vertebrates 119

5 The biased-competition memory system of early mammals 153

## Part III **Primate augmentations**

6 The manual-foraging memory system of early primates 191

7 The feature memory system of anthropoids 227

8 The goal memory system of anthropoids 267

## Part IV **Hominin adaptations**

9 The goal and feature memory systems of hominins 305

10 The social-subjective memory system of hominins 343

11 The origin of explicit memory in hominins 383

## Part V **Deconstructing and reconstructing memory systems**

12 Deconstructing amnesia 427

13 Reconstructing memory's past 465

Epilogue 479

Index 481