- Series Preface p. vii
- Preface p. ix
- Contributors p. xiii
- Chapter 1 Speech Processing in the Auditory System: An Overview Steven Greenberg and William A. Ainsworth p. 1
- Chapter 2 The Analysis and Representation of Speech Carlos Avendano and Li Deng and Hynek Hermansky and Ben Gold p. 63
- Chapter 3 Explaining the Structure of Feature and Phoneme Inventories: The Role of Auditory Distinctiveness Randy L. Diehl and Bjorn Lindblom p. 101
- Chapter 4 Physiological Representations of Speech Alan Palmer and Shihab Shamma p. 163
- Chapter 5 The Perception of Speech Under Adverse Conditions Peter Assmann and Quentin Summerfield p. 231
- Chapter 6 Automatic Speech Recognition: An Auditory Perspective Nelson Morgan and Herve Bourlard and Hynek Hermansky p. 309
- Chapter 7 Hearing Aids and Hearing Impairment Brent Edwards p. 339
- Chapter 8 Cochlear Implants Graeme Clark p. 422
- Index p. 463