



Acknowledgments v

Preface xi

PART 1: INTRODUCTION TO COMMUNICATION AND COMMUNICATION DISORDERS 1

CHAPTER 1: Communication: How Humans Share Information 3
Overview 3
What Is Communication? 3
What Is Language? 8
What Is Speech? 8
What Is Hearing? 10
How Are Communication, Language, Speech, and Hearing Related? 10
Culture and Communication 11

CHAPTER 2: Communication Disorders 13
Overview 13
What Is a Communication Disorder? 15
Determining What Is “Abnormal” 15
Classification of Communication Disorders 16
Types of Communication Disorders 17
What Is Significant Enough to Be Considered a Deficit? 20
Communication Disorders and Interpersonal Relationships 20
Multicultural Issues and Considerations 22
Demographic Profile of the United States 24
The Basics of Assessment and Intervention 24
Evidence-Based Practices 29

PART 2: LANGUAGE DEVELOPMENT AND DISORDERS 31

**CHAPTER 3: Preschool, Child, and Adolescent/
Young Adult Language Development 33**
Overview 33
Language Use, Form, Content, Nonverbal Language, and Figurative Language 34
Language Development From Infancy Through Young Adulthood 39
Oral Language and the Bridge to Written Language 66
The Importance of Literacy for Academic Success 68

**CHAPTER 4: Preschool, Child, and Adolescent/Young Adult
Language Disorders 71**
Overview 71
Disorders of Language Use, Form, and Content 72
Language Disorders With Specific Etiologies 75
Cultural Considerations 83
Assessment and Intervention 86

CHAPTER 5: Adult Language Disorders 95
Overview 95
Neurology of Aphasia 96



Contents

Causes of Brain Damage and Resulting Aphasia 98
 Language Characteristics of Aphasia 99
 Classification of Aphasia 100
 Other Characteristics of Left-Hemisphere Damage 104
 Right-Hemisphere Deficits 106
 Causes of Right-Hemisphere Deficits 107
 Assessment and Intervention 108
 Augmentative and Alternative Communication 112
 Working With Bilingual Clients With Aphasia 113

PART 3: SPEECH DISORDERS 115

CHAPTER 6: Voice Production and Disorders 117
 Overview 117
 The Speech and Voice Mechanism 117
 Voice and Resonance Disorders 124
 Assessment 132
 Intervention 134
 Transgender and Transsexual Voice Services 138
CHAPTER 7: Speech and Swallowing Disorders
 Associated With Dysarthria 139
 Overview 139
 Dysarthria 140
 Dysphagia 144
 End-of-Life Issues 150
CHAPTER 8: Articulation and Phonological Disorders 153
 Overview 153
 Production of Speech Sounds 154
 Classification of Speech Sounds 156
 Speech Sound Disorders 159
 Causes of Speech Sound Disorders 162
 Childhood Apraxia of Speech/Verbal Apraxia 165
 Assessment of Speech Sound Disorders 166
 Management of Speech Sound Disorders 168
CHAPTER 9: Fluency Disorders 173
 Overview 173
 Normal Versus Abnormal Speech Fluency 174
 Types of Disfluencies 176
 Fluency Disorders 178
 What Causes Stuttering? 181
 Relationship Between Pragmatics and Stuttering 182
 Assessment 183
 Intervention 184

PART 4: HEARING DISORDERS 187

CHAPTER 10: Hearing and Hearing Disorders 189
 Overview 189



Sound	190
Anatomy and Physiology of the Auditory System	193
Types and Causes of Hearing and Auditory Disorders	196
Hearing Loss and Cognitive Decline	206
Deafness and Deaf Culture	207
Assessment	208
Treatment	214
Aural Rehabilitation	221

PART 5: COMMUNICATION SCIENCES AND DISORDERS: THE PROFESSION 223

CHAPTER 11: Professional Roles, Work Settings, and Ethics	225
Overview	225
A Short History	226
Social Influences	232
Speech–Language and Audiology Professionals	233
Becoming an Audiologist or a Speech–Language Pathologist	243
Work Settings	247
Ethics	252
Multicultural Populations	253
The Impact of the DSM-5 on Clinical Practice	255
CHAPTER 12: The Importance of the Clinical Relationship	257
Overview	257
What Is the Clinical Relationship?	258
Characteristics of a Good Therapeutic Relationship	259
Variables That Influence a Clinical Relationship	261
CHAPTER 13: Assessment, Evaluation, Diagnosis, and Intervention	267
Overview	267
The Clinical Evaluation Process	268
Questions Clinicians Ask During an Initial Evaluation	277
Questions Clinicians Ask During a Reevaluation	281
The Intervention Process	283
CHAPTER 14: The Clinician’s Responsibility	295
Overview	295
Evidence-Based Practice (a Review)	297
The Clinician as Clinician–Investigator	298
The Clinical Research Process	300

Glossary 309

References 327

Index 339

About the Authors 359