CONTENTS

PREFACE vii

PART I GENERAL SURVEY

ONE • SETTING 3

1. Grammar 3
2. Linguistic Universals 4
3. Phonetic Representations 5
4. Components of a Grammar 6
5. Surface Structures 7
   5.1. Lexical and Phonological Representations 9
   5.2. On the Abstractness of Lexical Representations 11
   5.3. Analysis into Words 12
6. Summary 14

TWO • A SKETCH OF ENGLISH PHONOLOGY AND PHONOLOGICAL THEORY 15

1. The Principle of the Transformational Cycle and Its Application to English Stress Contours 15
2. On the Reality of Phonetic Representation 24
3. The Transformational Cycle Within the Word 26
4. The Segmental Phonology of English—a First Approximation 28
5. More on the Transformational Cycle Within the Word 29
6. Particular and Universal Grammar 43
7. On the Abstractness of Lexical Representation 44
8. Vowel Alternations 50

PART II ENGLISH PHONOLOGY

THREE • THE TRANSFORMATIONAL CYCLE IN ENGLISH PHONOLOGY 59

1. Introductory Remarks 59
   1.1. The Rules of the Phonological Component 60
## Contents

1. Notational Conventions 61  
2. Distinctive Features 64  
3. Boundary Features 66  
4. Segmental Features 68  
2. Stress Placement in Verbs—a First Approximation 69  
3. Stress Placement in Nouns—a First Approximation 71  
4. Alternating Stress Rule 77  
5. Stress Placement in Adjectives 79  
6. Derivational Affixes 80  
7. Summary of Stress Placement Rules 83  
8. Nuclear Stress 89  
9. Compounds 91  
10. Complex Verbs 94  
11. Nouns Derived from Verbs 96  
12. Revised Version of the Main Stress Rule 98  
13. Complex Nouns and Adjectives 100  
14. Vowel Reduction 110  
15. Further Investigation of Derivational Affixes 126  
16. Stress as a Lexical Category 145  

### FOUR • WORD-LEVEL PHONOLOGY 163  
1. Introductory Remarks 163  
2. Phonological and Phonetic Representation 164  
3. The Features 177  
4. Vowel Alternations 178  
5. The Consonant System of English 223  

### FIVE • SUMMARY OF RULES 236  
1. Readjustment Rules 238  
2. Phonological Rules 239  

### PART III HISTORY 249  
SIX • THE EVOLUTION OF THE MODERN ENGLISH VOWEL SYSTEM 249  
1. Introductory Remarks 249  
1.1. On Linguistic Change 249
1.2. General Comments on the Early History of Modern English 252
1.3. Concerning Exchange Rules 256
2. John Hart (1551–1579) 259
  2.1. The Evidence 260
  2.2. Hart’s Pattern 263
3. John Wallis (1653–1699) 266
  3.1. The Evidence 266
  3.2. Wallis’ Pattern 268
4. Christopher Cooper (1687) 275
  4.1. The Evidence 275
  4.2. Cooper’s Pattern 278
5. T. Batchelor (1809) 282
  5.1. The Evidence 283
  5.2. Batchelor’s Pattern 284

PART IV PHONOLOGICAL THEORY

SEVEN · THE PHONETIC FRAMEWORK 293

1. Phonetic Representation 293
   1.1. Phonetic Transcription and the Speech Signal 293
   1.2. Phonetic and Phonological Representation 295
2. The Phonetic Features 298
   2.1. The Neutral Position 300
   2.2. Vocal Cord Vibration—Spontaneous and Otherwise 300
3. Major Class Features 301
   3.1. Sonorant–Nonsonorant (Obstructed) 302
   3.2. Vocalic–Nonvocalic 302
   3.3. Consonantal–Nonconsonantal 302
4. Cavity Features 303
   4.1. Primary Strictures 303
      4.1.1. Coronal–Noncoronal 304
      4.1.2. Anterior–Nonanterior 304
   4.2. Features Relating to the Body of the Tongue: High–Nonhigh,
      Low–Nonlow, Back–Nonback 304
      4.2.1. On the Relationship Between the Features “Diffuseness,”
      “Compactness,” and “Gravity” and the Features of the
      Preceding Sections 306
   4.2.2. Degrees of Narrowing in the Vocal Tract 308
   4.3. Rounded–Nonrounded 309
   4.4. Distributed–Nondistributed 312
   4.5. Covered–Noncovered 314
   4.6. Glottal Constrictions 315
   4.7. Secondary Apertures 316
      4.7.1. Nasal–Nonnasal 316
      4.7.2. Lateral–Nonlateral 317
5. Manner of Articulation Features 317
   5.1. Continuant–Noncontinuant (Stop) 317
   5.2. Release Features: Instantaneous Release–Delayed Release 318
      5.2.1. Release of Primary Closures 319
      5.2.2. Release of Secondary Closures 319
      5.2.3. Comments on the Release Features 321