

CONTENTS

<i>List of Figures and Tables</i>	viii
<i>Preface</i>	xi
1 Introduction	1
1.1 Phonology vs phonetics	1
1.2 Outline of this book	3
Recommended reading	5
Questions for further discussion	6
2 Approaches to the Interface	7
2.1 The beginnings of the phonology/phonetics dichotomy	7
2.2 What is “real”? Phonological structure vs phonetic substance	10
2.3 Phonetics as linguistics: modularity	14
2.4 Phonology without phonetics and phonetics without phonology	19
Recommended reading	23
Questions for further discussion	24
3 ABCs: Segments, Transcription, and the Building Blocks of Inventories	25
3.1 The delimitation of units	25
3.2 Segmentation	27
3.3 Orthographies	30
3.4 Phonetic transcription	34
3.5 Selecting the inventory	42
3.6 Phonetic parameters and phonological features	46
3.7 The units of signed languages	47
Recommended reading	50
Questions for further discussion	51
4 Distinctive Feature Theory	53
4.1 Features and the goals of phonology	53
4.2 Historical background	54
4.3 Theories of distinctive features	56
4.4 What if there is no canon of features?	79

Recommended reading	83
Questions for further discussion	84
5 Rules and Derivations	86
5.1 Background and antecedents	86
5.2 The SPE model	92
5.3 Non-universal phonetics	97
5.4 Lexical and post-lexical phonology	101
5.5 Phonological and phonetic rules	104
5.6 A porous border?	109
Recommended reading	111
Questions for further discussion	112
6 Markedness, Naturalness, and Abstraction	114
6.1 What is “markedness”?	114
6.2 Natural and unnatural phonology	119
6.3 Optimality Theory	123
6.4 Phonetics in phonology	127
6.5 Evolutionary Phonology	132
6.6 Learning biases	135
6.7 The role of markedness in phonology	137
Recommended reading	138
Questions for further discussion	139
7 Suprasegmentals: Syllables, Stress, and Phrasing	140
7.1 “Segmental” vs “suprasegmental”	140
7.2 The prosodic hierarchy	143
7.3 The syllable	145
7.4 Stress	150
7.5 The phonological word and phrase	155
Recommended reading	161
Questions for further discussion	162
8 Intonation and Tone	163
8.1 The linguistic uses of pitch	163
8.2 Intonation	165
8.3 Tone	177
Recommended reading	185
Questions for further discussion	187
9 Articulatory Phonology	188
9.1 Towards an Articulatory Phonology	188
9.2 Gestures as units of contrast	189
9.3 Alternation as gestural reorganization	193
9.4 Is all phonology Articulatory Phonology?	199

9.5	Constraining timing relations	202
9.6	Extending the model	210
	Recommended reading	212
	Questions for further discussion	213
10	Speech Perception, Exemplar Theory, and the Mental Lexicon	215
10.1	Hearing and speech perception	215
10.2	Speech perception influences phonology	220
10.3	Phonology influences speech perception	223
10.4	Units of perception	229
10.5	Exemplar Theory	234
10.6	Perception and representation	238
	Recommended reading	240
	Questions for further discussion	241
11	Conclusions and Directions for Future Research	243
11.1	Questions and some possible answers	243
11.2	Some big unanswered questions	253
11.3	Directions for future research	257
11.4	Revisiting the metaphors	258
	Recommended reading	262
	Questions for further discussion	262
	<i>References</i>	264
	<i>Index</i>	301