# Contents

- Preface
- Acknowledgements

1 Preliminaries
  1.1 Background
  1.2 Phonological theory and phonological acquisition
  1.3 Perception and production
  1.4 Competence and performance
  1.5 Levels of adequacy
  1.6 Levels of representation and the units of representation
  1.7 Learnability
  1.8 Universals and innateness
  1.9 Continuity

2 The main claims of Smith (1973) and the evidence for them
  2.1 Introduction
  2.2 The nature of lexical representations
  2.3 Realisation rules
  2.4 The role of perception

3 Competing theories
  3.1 Rule-based (generative) theories
  3.2 Parameter-setting models
  3.3 Constraint-based theories, especially Optimality Theory
    - 3.3.1 Learnability in OT
    - 3.3.2 Opacity and the perception–production asymmetry
### Contents

3.4 Usage-based and connectionist models 44  
3.5 Interim conclusions 47  

4 **Z and his development** 50  
4.1 Family background 50  
4.2 Data and their collection 50  
4.3 Analysis 51  
4.4 Stages of development 51  

5 **The nature of the acquisition of phonology** 101  
5.1 Conceptual issues arising from the phonological development of A and Z 102  
5.1.1 Competence and performance (again) 102  
5.1.2 The child’s ‘system’ 103  
5.1.3 Lexical representations 105  
5.1.4 The perception–production mismatch: gestures 108  
5.1.5 The perception–production mismatch: theoretical alternatives 109  
5.1.6 Metalinguistic abilities 115  
5.2 Technical issues arising from the phonological development of A and Z 119  
5.2.1 The units of phonological analysis 119  
5.2.2 Explananda 121  
5.3 A smorgasbord? 123  
5.4 Conclusions and speculations 125  

6 **Diachronic lexicon of Z data** 127  
6.1 Table of stages and ages 127  
6.2 Table of sessions and ages 128  
6.3 The lexicon 132  
6.4 Z’s repertoire of gestures 233  

7 **Appendices** 235  
7.1 Z’s cluster production 235  
7.1.1 Sporadic clusters 235  
7.1.2 Final clusters 236  
7.1.3 Initial clusters 238
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2 Adult English initial clusters and their realisation by Z</td>
<td>241</td>
</tr>
<tr>
<td>7.3 Metalinguistic data</td>
<td>242</td>
</tr>
<tr>
<td>7.4 Inventory of Z’s judgements of what various words begin with</td>
<td>245</td>
</tr>
<tr>
<td>References</td>
<td>249</td>
</tr>
<tr>
<td>Index</td>
<td>260</td>
</tr>
</tbody>
</table>