

Contents

- 1 Introduction *p.1*
- 2 The Vocal Organs *p.17*
- 3 The Aerodynamic Phase *p.24*
 - Volume 24
 - Pressure 26
 - Velocity of flow 30
 - Types of flow 36
- 4 The Acoustic Phase *p.47*
 - Acoustic spectrum 52
 - Resonance 54
 - Non-repetitive sound-waves 56
 - Acoustics of speech 57
- 5 Initiation *p.63*
 - Pulmonic initiation 66
 - Glottalic initiation 68
 - Oralic initiation 71
 - Voiced glottalic and pulmonic stops 73
 - Other phonated glottalic sounds 77
 - Initiator-velocity 78
 - Initiator power 80
 - Stress 84
 - Isochronism 85
 - The syllable 88
 - Conclusion 91
- 6 Phonation *p.93*
 - Phonatory stricture-types 95
 - Combinations of stricture-types 98
 - Location 102
 - Summary of phonation types 105
 - Vocal-fold modifications 109
 - Voicing and aspiration 111
- 7 Articulation 1 : Stricture Types *p.117*

- 8 Articulation 2: Location *p.137*
 Labio-labial *146*
 Labio-dentalveolar *147*
 Denti- *148*
 Apico- *150*
 Lamino- *152*
 Sublamino- *153*
 Dorso-domal *159*
 Pharyngeal: articulation in the pharynx *163*
 Laryngeal: articulation in the larynx *163*
- 9 Vowels *p.165*
- 10 Co-articulation and Modified Articulation *p.188*
 Duration *195*
 Tenseness *199*
- 11 Sequences and Segmentation *209*
 Diphthong *215*
 Consonantal sequences *217*
 Segmentation *226*
- 12 Instrumental Phonetics *p.230*
 Speech recording/playback *230*
 Data recording, storage, and retrieval *232*
 Data processing and analysis *232*
 Data display *232*
 Simulation *233*
 Neuromuscular phase *234*
 Organic phase *235*
 Aerodynamic phase *239*

 Notes and References p.247
 List of Works Consulted 256
 Index 263