

THE PRODUCTION OF PHONEMES

A KINESIOLOGICAL DESCRIPTION

PART 1— BASIC ELEMENTS

- 1.1 The lingual center of mass (barycenter)
- 1.2 Center(s) of mass of the tongue
- 1.3 The source of lingual nodes
- 1.4 Tongue divisions

PART 2— PRIMAL NODES

- 2.1 The primal nodes of the lingual frame
- 2.2 The three nodes - physical evidence of nodal masses
- 2.3 Directions of primal node actions — the Rule
- 2.4 The primary functions of the oral tract
 - 2.4.1 Respiration
 - 2.4.2 Feeding
 - 2.4.3 Speech - the h, n, and m nodes
 - 2.4.4 Anatomic factors of node generation
- 2.5 Equilibrium, distortion and hierarchy of node frames
 - 2.5.1 Hierarchy of states of mergers - distortion/equilibrium
 - 2.5.2 The lingual trinode
 - 2.5.3 The extrinsic connections of the lingual trinode

PART 3— PRIMAL PRESETTINGS

- 3.1 Primal presetting positions
- 3.2 The mechanical roles of the primal nodes in primal presettings
 - 3.2.1 The n nodal functions - agent of presetting
 - 3.2.2 The h-m nodal functions - stable vs. active
 - 3.2.3 Masking of the primary presettings
 - 3.2.4 The role of primary presettings in oral tract functions
 - 3.2.5 Notes on observing nodes
 - 3.2.5a Nodes: isolated vs. engaged (pre-articulative)
 - 3.2.5b Intrinsic (or anchor) vs. extrinsic (or manifold) agencies
 - 3.2.5c Positional variants

PART 4—BASIC ACTIONS

- 4.1 The functionality of primal presettings
- 4.2 Inherent phonemic nodes of primal presettings
- 4.3 The n-node in dorsal presetting
- 4.4 The expansion of frame presettings
- 4.5 Sequential alternating
- 4.6 Mergers
 - 4.6.1 The function of node merger
 - 4.6.2 Mergers of primary nodes
- 4.7 Merger of dorsal, ventral and medial presettings in full articulation
- 4.8 Variation of force directions depending on primal presettings
- 4.9 Phoneme distribution in the merged phonemic ground
- 4.10 The merged general phonemic ground
- 4.11 Alternation of roles in the phonemic engine
- 4.12 Syllabification and alternation in tract states
- 4.13 - The 3 x 3 matrix
 - 4.13.1 Field of articulation action: the 3 x 3 matrix or the general vowel quadrilateral
 - 4.13.2 Transfer and locking of nodes
 - 4.13.3 The 3 x 3 matrix at higher resolution
 - 4.13.4 Gearbox mechanism
 - 4.13.5 Superimposition and embedding of primal presettings
- 4.14 Primal node behavior in phoneme generation
 - 4.14.1 Elements
 - 4.14.2 Actions
 - 4.14.3 Phoneme production: the roles of central, active and stabilizer nodes in articulation

PART 5—MATRIX MECHANICS

THE SIMPLE VOWELS AND SIMPLE CONSONANTS

- 5.1 First level mergers: simple vowels and simple consonants
- 5.2 General chart of first level mergers
- 5.3 The actions of the primal nodes in the articulative matrix
- 5.4 Matricial format
- 5.5 Geometric format
- 5.6 The inherent directional determinants of node movement directions: the two versions of the 3 x 3 matrix
- 5.7 Anatomic design of directional determination
- 5.8 Nodal movement in syllabification in primary settings
- 5.9 The two versions of matrix diagrams

PART 6—MATRICIAL GENERATION:

SIMPLE PHONEMES-THE FIRST LEVEL MERGERS

- 6.1 Nodal actions in producing the simple vowels

PART 7—COMPLEX CONSONANTS

- 7.1 Complex consonants
- 7.2 The three formats of complex mergers
- 7.3 Linear merger format
- 7.4 Linear format - lingual node framework of complex consonants (CCT)
- 7.5 The nodal positions in full articulation.
- 7.6 Lingual presetting aspects
- 7.7 Perceptibility
- 7.8 Relation of complex consonants taxonomy to IPA
- 7.9 Complex consonant secondary glide lines
- 7.10 CCT alternate diagrams
- 7.11 Node regions related to specific languages
- 7.12 Palatalization
- 7.13 Retrovection: directionality in certain phonemic consonant mergers
- 7.14 The j, w, l valvular faculties
 - 7.14.1 Initial consonant clusters
- 7.15 Lingual presetting aspect
- 7.16 Comparison between IPA and CCT
- 7.17 Quantity of consonants in t and k lines
- 7.18 Voicing
- 7.19 Triadic functional areas
- 7.20 The presence of primal presettings
- 7.21 Divisions of articulatory targeting nodes
- 7.22 Infant vocalization
- 7.23 The quantities per node of connecting lines
- 7.24 Complex consonant production — matricial format
- 7.25 Complex consonants - orbital format

PART 8—ULTRA COMPLEX CONSONANTS

- 8.1 Ultra complex consonants
- 8.2 Merger mechanics
- 8.3 Ultra complex consonants - linear format
- 8.4 Ultra complex consonants - matricial format
- 8.5 Ultra complex consonants - orbital format