



The Acoustics of Speech Communication: Fundamentals, Speech Perception Theory, and Technology

By Pickett, J. M.

Pearson, 1998. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: All chapters conclude with "Summary." Preface. I. ACOUSTIC PHONETICS: SPEECH ENCODING FROM ARTICULATION TO SOUND STREAM. 1. Language, Phonetics, and Speech Production. Introduction: Language and Science. How Significant Is Acoustic Phonetics? Linguistics, Phonetics, and Phonology. General Conditions of Speech Production. Speech Sound Sources. 2. Sounds, Resonance, and Spectrum Analysis. Sound Production and Propagation. Simple Harmonic Motion. Definitions of Sine Wave Characteristics. Resonance. Definition of Resonant Frequency. Spectrum Analysis. Definitions of Spectrum Terms. Spectra of Recurring Resonant Oscillations. Definitions of Harmonics. Resonant Waves, Spectrum Plots, and Speech Waves. Aperiodic Speech Sounds. 3. Vowel Shaping and Vowel Formants. Model of Pharyngeal-Oral Tract. Spectrum of the Neutral Vowel e. Definition of Speech Formants. Vowel Formant Locations and Length of Pharyngeal-Oral Tract. Vocal Tract Constrictions and Formant Frequency Locations. Formants of Model Vowels. Central Vowels. 4. The Glottal Sound Source and the Spectra of Vowels. The Glottal Sound Source. The Phonation Mechanism. The Spectrum of the Glottal Sound Source. Source-Filter Theory of Vowel Production. Visualizing Speech Sounds. Anatomy of Spectrogram. Spectrograms of Vowels. Nasalization of Vowels. Phonemic Nasal Vowels. 5. Prosodic and Tonal Features. Introduction: Telling What and...



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