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Acoustic phonetics is the study of the physical properties of speech, and aims to analyse sound wave signals that occur within speech through varying frequencies, amplitudes and durations. One way we can analyse the acoustic properties of speech sounds is through looking at a waveform. Pressure changes can be plotted on a waveform, which highlights the air particles being compressed and rarefied, creating sound waves that spread outwards.

Acoustic Phonetics – All About Linguistics

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Acoustic phonetics is a subfield of phonetics, which deals with acoustic aspects of speech sounds. Acoustic phonetics investigates time domain features such as the mean squared amplitude of a waveform, its duration, its fundamental frequency, or frequency domain features such as the frequency spectrum, or even combined spectrotemporal features and the relationship of these properties to other branches of phonetics, and to abstract linguistic concepts such as phonemes, phrases, or utterances. The

Acoustic phonetics - Wikipedia

This is a great introduction to acoustic phonetics. It covers a broad spectrum of acoustic phonetic principles and sub-disciplines and gives enough information that the beginner can understand them. Some chapters take a bit more time, i.e. Fourier analysis and linear predictive coefficients, but on the whole it is quite readable.

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The basic acoustic phonetic parameters are specified as gap, voice bar, broad-band continuous spectrum, the frequencies of the vowel and consonant formants, the amplitudes of the vowel and consonant formants, and the frequencies of the consonant antiresonances.

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The second edition includes four new chapters that cover new experimental techniques in acoustic phonetics made possible by the use of computers. Assuming no background in physics or mathematics, Ladefoged explains concepts that must be understood

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in using modern laboratory techniques for acoustic analysis, including resonances of the vocal tract and the relation of formants to different cavities; digital speech processing and computer storage of sound waves; and Fourier analysis and Linear ...

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