

Cambridge Studies
in Speech Science
and Communication

**Speech physiology,
speech perception,
and acoustic
phonetics**

Philip Lieberman and
Sheila E. Blumstein

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Speech Physiology, Speech Perception, and Acoustic Phonetics Keith Johnson, Department of Linguistics, UCLA, Los Angeles, CA, U.S.A. Department of Linguistics, UCLA Los Angeles CA U.S.A. Department of Linguistics, UCLA, Los Angeles, CA, U.S.A. References Ladefoged, 1978 Ladefoged, P. Review of Speech physiology and acoustic phonetics by P. Lieberman Language 54: (1978) 920-922 Ladefoged, P. (1978) Review of Speech physiology and acoustic phonetics by P. Lieberman, Language, 54, 920 ...

Speech Physiology, Speech Perception, and Acoustic ...

The principles that underlie the processes of speech production and speech perception are difficult to discuss without making use of the physical concepts of wave motion, periodicity, frequency, and amplitude. These concepts are, fortunately, fairly simple and straightforward. We will also discuss the use and the physical meaning of graphs as they relate to the description of physical measurements, and conclude with an elementary description of the frequency analysis of acoustic signals and ...

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Speech perception, like perception in any modality, is relative to context, and this provides a means to normalize the acoustic variability in the speech signal. Acoustic context effects in speech perception have been widely documented, but a clear understanding of how these effects relate to each other across stimuli, timescales, and acoustic domains is lacking. Here we review the influences that spectral context, temporal context, and spectrotemporal context have on speech perception ...

Acoustic context effects in speech perception

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Psychoacoustics is the branch of psychophysics involving the scientific study of sound perception and audiology—how humans perceive various sounds. More specifically, it is the branch of science studying the psychological responses associated with sound (including noise, speech, and music). Psychoacoustics is an interdisciplinary field of many areas, including psychology, acoustics, electronic engineering, physics, biology,

physiology, and computer science.

Psychoacoustics - Wikipedia

The text is suitable for courses that cover the anatomy and physiology of speech production and swallowing, the anatomy and physiology of the hearing mechanism and auditory psychophysics, the acoustics and perception of speech, and general neuroanatomy and neurophysiology and its relevance for speech and hearing.

Preclinical Speech Science: Anatomy, Physiology, Acoustics ...

analysis of speech speech anatomy and physiology and speech perception the fifth edition also includes topics such as research methodology speech motor control and history evolution of speech science written in a clear reader friendly style speech science primer serves as an introduction to speech science and covers basic information on acoustics the acoustic analysis of speech speech anatomy ...

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