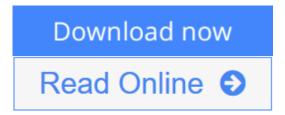


Acoustic and Auditory Phonetics

By Keith Johnson



Acoustic and Auditory Phonetics By Keith Johnson

Acoustic and Auditory Phonetics provides an accessible yet rigorous introduction to basic acoustics, audition, signal processing, and the acoustic theory of speech production.

- Provides readers with an accessible yet rigorous introduction to phonetics and speech sciences.
- Introduces basic acoustics, audition, signal processing, and the acoustic theory of speech production, then surveys the major classes of sounds.
- Features a new chapter on speech perception as well as additional sections on digital filtering and cross-linguistic vowel and consonant perception.
- Includes exercises at the end of every chapter.



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Editorial Review

Review

"The book covers the whole range of basic and some more advanced knowledge on acoustic and auditory phonetics by clear descriptions and easy-to-follow explanations... The whole structure and approach make the book satisfying to read and rewarding to use." *Phonetica*

"This well-thought-out textbook has proved to be invaluable for students who want to know more than the basic elements of acoustic phonetics. The spectrograms provide a good view of a wide range of sounds, and the material on perception and hearing is particularly insightful. Keith Johnson is a leading figure in the field of perceptual phonetics and shows students how good experiments should be done." *Peter Ladefoged*, *University of California, Los Angeles*

"The best phonetics textbook I've ever used. Uniquely successful in revealing to beginners the line of reasoning in acoustic modelling." *Janet Pierrehumbert, Northwestern University*

"An excellent phonetics text for students of linguistic phonetics and speech science. Students encounter clear explanations of the basics of acoustics, digital signal processing, the acoustic theory of speech production, and the accounts it offers for the acoustic properties of basic speech sound types. Professional speech scientists may learn from it too; I did." *Carol A. Fowler, Haskins Laboratories*

From the Back Cover

Newly revised and expanded, *Acoustic and Auditory Phonetics* provides readers with an accessible yet rigorous introduction to phonetics and speech sciences.

The first chapters introduce basic acoustics, audition, signal processing, and the acoustic theory of speech production. The book then surveys the major classes of sounds, describing them acoustically, auditorily, and perceptually. This second edition includes a new chapter on speech perception and additional sections on digital filtering and cross-linguistic vowel and consonant perception.

The successful first edition received high praise, and the enhancements to the second edition make it an even more valuable resource for students.

About the Author

Keith Johnson is Professor of Linguistics at Ohio State University. He has published articles on speech perception, acoustic and articulatory phonetics, and psycholinguistics; he is co-editor of *Talker Variability in Speech Processing* (with John Mullennix, 1997) and *The Role of Speech Perception in Phonology* (with Beth Hume, 2001).

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