



# Acoustic and Auditory Phonetics

By Keith Johnson

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## 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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## Acoustic and Auditory Phonetics By Keith Johnson Bibliography

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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).

## **Users Review**

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In this 21st centuries, people become competitive in every way. By being competitive right now, people have do something to make them survives, being in the middle of the actual crowded place and notice simply by surrounding. One thing that oftentimes many people have underestimated the idea for a while is reading. Yes, by reading a book your ability to survive boost then having chance to stand than other is high. For you personally who want to start reading a new book, we give you this kind of Acoustic and Auditory Phonetics book as beginning and daily reading guide. Why, because this book is usually more than just a book.

#### **Jeremy Smith:**

Reading can called imagination hangout, why? Because if you find yourself reading a book especially book entitled Acoustic and Auditory Phonetics your mind will drift away trough every dimension, wandering in each aspect that maybe not known for but surely will become your mind friends. Imaging each word written in a publication then become one web form conclusion and explanation in which maybe you never get ahead of. The Acoustic and Auditory Phonetics giving you another experience more than blown away your brain but also giving you useful info for your better life on this era. So now let us present to you the relaxing pattern this is your body and mind will be pleased when you are finished reading it, like winning a. Do you want to try this extraordinary spending spare time activity?

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#### **Richard Moultrie:**

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