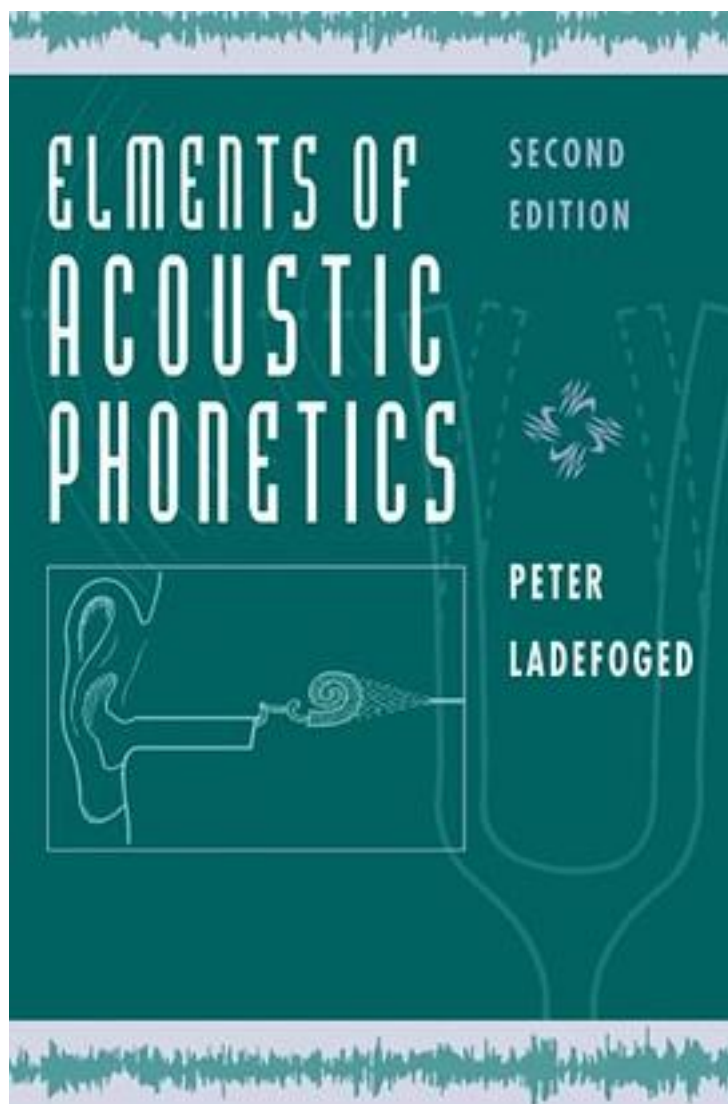


Elements of Acoustic Phonetics



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出版者:University Of Chicago Press

出版时间:1995-12-1

装帧:Paperback

isbn:9780226467641

This revised and expanded edition of the classic "Elements of Acoustic Phonetics" provides a concise introduction to basic concepts of acoustics and digital speech processing that are important to linguists, phoneticians, and speech scientists. 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 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 Predictive Coding, the equations used most frequently in the analysis of speech sounds. Incorporating recent developments in our knowledge of the nature of speech, Ladefoged also updates the original edition's discussion of the basic properties of sound waves; variations in loudness, pitch, and quality of speech sounds; wave analysis; and the hearing and production of speech.

作者介绍:

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标签

语音学

实验语音学

语言学

声学语音学

声学

Ladefoged

语音研究

linguistics

评论

声学基础知识。p6，空气粒子左右震动。四，几个正弦波合成复杂波，spectrum比波形图更能定义元音，line和continuous spectrum之间关系。五，共鸣，damped，resonance curve，resonant frequency及bandwidth (0.707)，作为filter的共鸣器的作用。六，振幅影响音高，音高变化感知最低阈限，主观音高感知与客观基频关系，音强取决于振幅均方根，分贝。七，source-filter理论。八，简单共鸣腔，two-tube model的前后tube与F1F2，Helmholtz 共鸣器与低F1，成阻部位不同，F2F3交替受圆唇影响。九，采样频率及振幅层级，窗口（方形、弧形）。十，离散傅立叶变换。十一，MAfilter，线性预测系数

標準和基石。

过于照顾文科生，描述性语言过多显得不够简练精确。。。

重读。

太浅显。但Ladefoged的书总要高看一眼的嗯。

浅显易懂 关键是短

实在太啰嗦了……尤其最后两章，数学一复杂，每一步运算都要讲清楚，仿佛读者小学还没毕业……整本书其实不深，需要Johnson的书作为补充。用来作语音声学入门还不错。

被老师安利读的第一本acoustics，循循善诱得相当温柔。虽然Ladefoged去世了，但还是希望能有修订版。

很简单易看的一本小册子，薄薄的，看完能有一点成就感吧，概念也讲的比较基础

入门级的读物，虽然年代略有些久远，但是还是非常有价值的。最后一部分可能有些难懂，不过还好。基础的基础。

又一本教科书，作为文科生还是被前面那些鬼画符小虐了一把，不过整体还是很简单、易懂、平实

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书评

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