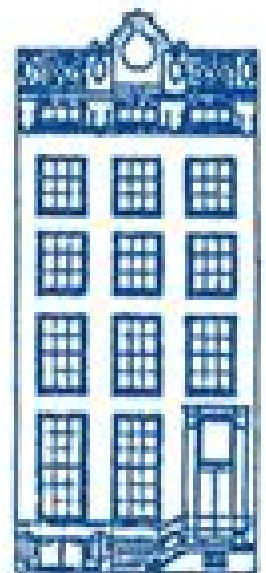


Speech acoustics and phonetics

Louis C.W. Pols

Institute of Phonetic Sciences (IFA)
Amsterdam Center for Language and
Communication (ACLC)



NATO-ASI "Dynamics of Speech
Production and Perception" II
Ciocco, Tuscany, Italy, July 1, 2002

Speech Acoustics And Phonetics

Raymond D. Kent, Charles Read



Speech Acoustics And Phonetics:

Speech Acoustics and Phonetics Gunnar Fant, 2004 This book assembles major writings in speech production and phonetics of the pioneering Gunnar Fant along with his more recent work on speech prosody The book reviews the stages of the speech chain covering production speech data analysis and speech perception 19 selected articles are grouped in 6 chapters including a historical outline plus Speech production and synthesis The voice source Speech analysis and features Speech perception Prosody

The Acoustics of Speech Communication James M. Pickett, 1999 This is the only book to relate all three of the currently interactive areas of speech science acoustic phonetics speech perception and speech technology The book presents a gradual course starting with a clear tutorial approach to basic speech then leading to speech perception research the various theories of speech perception and the modern speech technologies of computer synthesis and recognition of speech messages The aim is to bring the reader through basic acoustics spectrum analysis vowel and consonant acoustics and into the research literature of speech perception technology The basic acoustic theory of speech production the Source Filter Theory is clarified via text and diagrams This knowledge is then applied to interpreting spectrograms of speech examples that sample all the phonetic distinctions among vowels and consonants Distinctive acoustical patterns for vowel and consonant perception by listeners are summarized in detail based on the research literature Critical discussions provide theories of motor auditory and computer recognition of speech Consonant and vowel recognition by the hearing impaired is described in relation to acoustic phonetic distinctions Techniques of speech synthesis recognition analysis by machines and speech technologies are thoroughly explained Anyone interested in speech acoustics acoustic phonetics speech and hearing science psychoacoustics and speech perception at any level

Acoustic Phonetics Kenneth N. Stevens, 2000-07-24 This book presents a theory of speech sound generation in the human vocal system This book presents a theory of speech sound generation in the human vocal system The comprehensive acoustic theory serves as one basis for defining categories of speech sounds used to form distinctions between words in languages The author begins with a review of the anatomy and physiology of speech production then covers source mechanisms the vocal tract as an acoustic filter relevant aspects of auditory psychophysics and physiology and phonological representations In the remaining chapters he presents a detailed examination of vowels consonants and the influence of context on speech sound production Although he focuses mainly on the sounds of English he touches briefly on sounds in other languages The book will serve as a reference for speech scientists speech pathologists linguists interested in phonetics and phonology psychologists interested in speech perception and production and engineers concerned with speech processing applications

Acoustics of American English Speech Joseph P. Olive, Alice Greenwood, John Coleman, 1993-05-21 This book presents the most contemporary and comprehensive description of the acoustics of the sounds used in American English Intended to serve as an introductory text for students and professionals interested in acoustic phonetics linguistics physics electrical engineering and computer

science the authors bring to the subject the points of view of both linguistics and physics The book uses numerous examples of acoustic spectrograms to show the continuities and variability of natural speech The book begins by introducing the basic concepts of phonetics phonology and linguistics to readers whose background is in physics or engineering and introducing the physics of sound generation and analysis for speech scientists and linguists The authors then use the tools developed in the first part to examine the characteristics of individual phonemes as well as the changes introduced when individual sounds are combined in speech Modern applications of speech acoustics especially speech synthesis and recognition are also discussed

Elements of Acoustic Phonetics Peter Ladefoged, 2017-12-25 This revised and expanded edition of a classic textbook 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 Like its predecessor this edition of *Elements of Acoustic Phonetics* will serve as an invaluable textbook and reference for students and practitioners of linguistics and speech science and for anyone who wants to understand the physics of speech

Techniques in Speech Acoustics J. Harrington, S. Cassidy, 2012-12-06 *Techniques in Speech Acoustics* provides an introduction to the acoustic analysis and characteristics of speech sounds The first part of the book covers aspects of the source filter decomposition of speech spectrographic analysis the acoustic theory of speech production and acoustic phonetic cues The second part is based on computational techniques for analysing the acoustic speech signal including digital time and frequency analyses formant synthesis and the linear predictive coding of speech There is also an introductory chapter on the classification of acoustic speech signals which is relevant to aspects of automatic speech and talker recognition The book intended for use as teaching materials on undergraduate and postgraduate speech acoustics and experimental phonetics courses also aimed at researchers from phonetics linguistics computer science psychology and engineering who wish to gain an understanding of the basis of speech acoustics and its application to fields such as speech synthesis and automatic speech recognition

Phonetic Analysis of Speech Corpora Jonathan Harrington, 2010-04-12 An accessible introduction to the phonetic analysis of speech corpora this workbook style text provides an extensive set of exercises to help readers develop the necessary skills to design and carry out experiments in speech research Offers the first step by step treatment of advanced techniques in experimental phonetics

using speech corpora and downloadable software including the R programming language Introduces methods of analyzing phonetically labelled speech corpora with the goal of testing hypotheses that often arise in experimental phonetics and laboratory phonology Incorporates an extensive set of exercises and answers to reinforce the techniques introduced Accessibly written with easy to follow computer commands and spectrograms of speech Companion website at www.wiley.com/go/harrington which includes illustrations video tutorials appendices and downloadable speech corpora for testing purposes Discusses techniques in digital speech processing and in structuring and querying annotations from speech corpora Includes substantial coverage of analysis including measuring gestural synchronization using EMA the acoustics of vowels consonant overlap using EPG spectral analysis of fricatives and obstruents and the probabilistic classification of acoustic speech data

Speech Physiology, Speech Perception, and Acoustic Phonetics Philip Lieberman, Sheila Blumstein, 1988-02-04 This analysis of speech ranges from clarifying physiological biological and neurological bases of speech through defining the principles of electrical and computer models of speech production

Acoustic and Auditory Phonetics Keith Johnson, 2011-07-15 Fully revised and expanded the third edition of *Acoustic and Auditory Phonetics* maintains a balance of accessibility and scholarly rigor to provide students with a complete introduction to the physics of speech Newly updated to reflect the latest advances in the field Features a balanced and student friendly approach to speech with engaging side bars on related topics Includes suggested readings and exercises designed to review and expand upon the material in each chapter complete with selected answers Presents a new chapter on speech perception that addresses theoretical issues as well as practical concerns

The Sounds of Speech Communication James M. Pickett, 1980

The Acoustic Analysis of Speech Raymond D. Kent, Charles Read, 1992 Often cited as the most important human faculty speech remains the focus of intensive study by specialists in such diverse fields as linguistics psychology physiology engineering computer science speech pathology and neurology

Speech Acoustics and Phonetics Gunnar Fant, 2007-09-28 This book assembles major writings in speech production and phonetics of the pioneering Gunnar Fant along with his more recent work on speech prosody The book reviews the stages of the speech chain covering production speech data analysis and speech perception 19 selected articles are grouped in 6 chapters including a historical outline plus Speech production and synthesis The voice source Speech analysis and features Speech perception Prosody

Acoustic Phonetics D. B. Fry, 2009-04-02 D B Fry has edited a basic course of readings on the acoustics of speech The collection includes all the important classical papers in the field It is carefully structured to present the student with a coherent picture of the relations between language units and the corresponding sound waves and to explain the laws that govern these relations He includes extracts which explain the generation of sound waves by the speech mechanism the methods of acoustic analysis of speech and the operation of the sound spectrograph with excerpts from the first published accounts of the instrument The volume also illustrates the contribution to the general study of language made by research on speech perception There are accounts

of speech synthesis and of experiments on rhythm intonation and the perception of acoustic cues Phonetics Henning Reetz,Allard Jongman,2011-09-23 Companion website featuring additional resources such as sound files can be found here <http://www.blackwellpublishing.com/phonetics> Providing a comprehensive overview of the four primary areas of phonetics Phonetics Transcription Production Acoustics and Perception is an ideal guide to the complete study of speech and sound An accessible but in depth introductory textbook on the basic concepts of phonetics Covers all four areas of phonetics transcription production acoustics and perception Offers uniquely thorough coverage of related relevant areas including vocal fold vibration and the working of the ear creating an engagingly flexible work for instructors Includes chapter by chapter exercises enabling students to put their knowledge into practice Written in a clear and concise style by two of the field's leading scholars *Phonetic Processing* Donald W. Dew,Paul J. Jensen,1977 Phonetics Martin J Ball,Joan Rahilly,2014-02-04 In their comprehensive new introduction to phonetics Ball and Rahilly offer a detailed explanation of the process of speech production from the anatomical initiation of sounds and their modification in the larynx through to the final articulation of vowels and consonants in the oral and nasal tracts This textbook is one of the few to give a balanced account of segmental and suprasegmental aspects of speech showing clearly that the communication chain is incomplete without accurate production of both individual speech sounds segmental features and aspects such as stress and intonation suprasegmental features Throughout the book the authors provide advice on transcription primarily using the International Phonetic Alphabet IPA Students are expertly guided from basic attempts to record speech sounds on paper to more refined accounts of phonetic detail in speech The authors go on to explain acoustic phonetics in a manner accessible both to new students in phonetics and to those who wish to advance their knowledge of key pursuits in the area including the sound spectrograph They describe how speech waves can be measured as well as considering how they are heard and decoded by listeners discussing both physiological and neurological aspects of hearing and examining the methods of psychoacoustic experimentation A range of instrumentation for studying speech production is also presented The next link is acoustic phonetics the study of speech transmission Here the authors introduce the basic concepts of sound acoustics and the instrumentation used to analyse the characteristics of speech waves Finally the chain is completed by examining auditory phonetics and providing a fascinating psychoacoustic experimentation used to determine what parts of the speech signal are most crucial for listener understanding The book concludes with a comprehensive survey and description of modern phonetic instrumentation from the sound spectrograph to magnetic resonance imaging MRI An Introduction to the Science of Phonetics Nigel Hewlett,Janet Mackenzie Beck,2013-04-03 The book is designed as an introduction to the scientific study of speech No prior knowledge of phonetics is assumed As far as mathematical knowledge is concerned all that is assumed is a knowledge of simple arithmetic and as far as possible concepts are dealt with on an intuitive rather than mathematical level The anatomical material is all fully explained and illustrated The book is arranged in four parts Part 1 Basic Principles

provides an introduction to established phonetic theory and to the principles of phonetic analysis and description including phonetic transcription Part 2 Acoustic Phonetics considers the physical nature of speech sounds as they pass through the air between speaker and hearer It includes sections on temporal measurement fundamental frequency spectra and spectrograms Part 3 Auditory Phonetics covers the anatomy of the ear and the perception of loudness pitch and quality The final part Part 4 covers the articulatory production of speech and shows how experimental techniques and tools can enhance our understanding of the complexities of speech production Though the audience for this book is mainly students and professors in the Speech Sciences it will also be valuable to any students studying hearing science and acoustics The book is well supported with figures tables and practice boxes with experiments

Principles of Experimental Phonetics Norman J. Lass, 1996 A text for graduate students and professionals in speech language pathology audiology hearing sciences psychology the cognitive sciences and linguistics Sections on speech production the speech signal speech perception and research techniques cover topics such as models of speech production the acoustic characteristics of American English and instrumentation for the study of speech acoustics Features chapter outlines key terms summaries and review questions Includes bandw photos and a glossary Annotation copyright by Book News Inc Portland OR

A Field Manual for Acoustic Phonetics Joan L. G. Baart, 2018-09-17 This book provides a practical and easy to understand introduction to acoustic speech analysis primarily aimed at those involved in linguistic analysis and description in the field and at those preparing for such fieldwork It explains commonly used methods for displaying aspects of a speech wave such as waveform graphs spectra spectrograms fundamental frequency graphs pitch graphs and intensity graphs It illustrates how the results of acoustic analysis can be interpreted and used to improve the objectivity accuracy and precision of phonetic descriptions of speech sounds The book assumes basic knowledge of articulatory phonetics It can be used to teach introductory courses in acoustic phonetics at the undergraduate level

Contemporary Issues in Experimental Phonetics Norman Lass, 2012-12-02 Contemporary Issues in Experimental Phonetics provides comprehensive coverage of a number of research topics on experimental phonetics This book is divided into four parts Part I describes the instrumentation systems employed in the study of speech acoustics and speech physiology The models aerodynamic principles and peripheral physiological mechanisms of speech production are discussed in Part II Part III explains the problems in the specifications of the acoustic characteristics of speech sounds and suprasegmental features of speech The speech perception process speaker recognition theories on the nature of the dichotic right ear advantage and errors in auditory perception are elaborated in the last chapter This text likewise covers the measurement of temporal processing in speech perception and interrelationship of speech hearing and language in an understanding of the total human communication process This publication is valuable to speech and hearing scientists speech pathologists audiologists psychologists linguists and graduate students researching on experimental phonetics

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