

CLINICAL MEASUREMENT OF SPEECH AND VOICE

SECOND EDITION

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Clinical Measurement Of Speech And Voice Speech Science

Nupur Kapoor Nerurkar



Clinical Measurement Of Speech And Voice Speech Science:

Clinical Measurement of Speech and Voice Ronald J. Baken, 1987

The SAGE Encyclopedia of Human

Communication Sciences and Disorders Jack S. Damico, Martin J. Ball, 2019-03-01 The SAGE Encyclopedia of Human Communication Sciences and Disorders is an in depth encyclopedia aimed at students interested in interdisciplinary perspectives on human communication both normal and disordered across the lifespan This timely and unique set will look at the spectrum of communication disorders from causation and prevention to testing and assessment through rehabilitation intervention and education Examples of the interdisciplinary reach of this encyclopedia A strong focus on health issues with topics such as Asperger s syndrome fetal alcohol syndrome anatomy of the human larynx dementia etc Including core psychology and cognitive sciences topics such as social development stigma language acquisition self help groups memory depression memory Behaviorism and cognitive development Education is covered in topics such as cooperative learning special education classroom based service delivery The editors have recruited top researchers and clinicians across multiple fields to contribute to approximately 640 signed entries across four volumes

Practical Laryngology Declan Costello, Guri Sandhu, 2015-10-28 Practical Laryngology is an invaluable guide to laryngology It covers all the relevant areas in the field from basic science to disorders and diseases to in clinic procedures and the future of laryngology In an easy to read format the book discusses a wide variety of topics including neurological diseases of the larynx swallowing disorders la

Voice Work Christina Shewell, Rockford Sansom, 2025-02-25 Voice Work Second Edition The voice is one of the fundamental modes of self expression a key touchstone of identity and sense of self Many people in all walks of life are looking to change their voices whether to modify a speaking challenge of some kind to cultivate a professional skill or for other reasons Voice practitioners have an invaluable role in guiding clients along the path to their desired voice outcomes Building on the success of the first edition Voice Work continues to offer a wide ranging introduction to the repair improvement development and exploration of the spoken and sung voice Balancing rigorous scholarship with practical insights the book draws from all major vocal professions and paths within voice work It offers guidance for developing the voice alongside detailed up to date insights into the work of voice instruction Readers of the second edition of Voice Work will also find Numerous new colour illustrations Extensive chapter revisions and reference updates Original chapters on the history of voice work public speaking and voice work online Updated material on voice and emotions mindfulness and imagery voice work and well being the applications of technology and the value of practitioner supervision Additional techniques and exercises Voice Work is a valuable resource for spoken voice teachers singing teachers and speech and language therapists and pathologists Endorsements from leading members of these professions for both the first and second editions are featured inside

The MIT Encyclopedia of Communication Disorders Raymond D. Kent, 2004 A major new reference work with entries covering the entire field of communication and speech disorders

Acoustics and

Psychoacoustics David Howard, Jamie Angus, 2012-08-06 Acoustics and Psychoacoustics is ideal for students of music technology sound recording traditional music and acoustics as well as engineers studying audio multimedia and communications systems Gain a practical understanding of how real musical sounds behave and are perceived in real spaces with this accessible and interesting read This third edition offers a CD of audio examples crucial for a clear understanding of the concepts discussed Visit the book's supporting website at <http://books.elsevier.com/0240519957> for additional resources such as Questions and exercises to test your knowledge Web links for further resources and research Audio clips Calculation facilities eg adding decibel values and converting between frequency ratio and cents semitones This website can also be reached via www.focalpress.com

The Handbook of Phonetic Sciences William J. Hardcastle, John Laver, Fiona E. Gibbon, 2012-07-13 Thoroughly revised and updated the second edition of *The Handbook of Phonetic Sciences* provides an authoritative account of the key topics in both theoretical and applied areas of speech communication written by an international team of leading scholars and practitioners Combines new and influential research along with articulate overviews of the key topics in theoretical and applied areas of speech communication Accessibly structured into five major sections covering experimental phonetics biological perspectives modelling speech production and perception linguistic phonetics and speech technology Includes nine entirely new chapters on topics such as phonetic notation and sociophonetics speech technology biological perspectives and prosody A streamlined and re-oriented structure brings all contributions up to date with the latest research whilst maintaining the features that made the first edition so useful

[Advances in Clinical Phonetics](#) Martin J. Ball, Martin Duckworth, 1996-10-18 *Advances in Clinical Phonetics* focuses on important developments in phonetic description Recent years have seen increasing developments in phonetic description in both instrumental and impressionistic approaches Not restricted to the phonetics of normal speech clinical phoneticians and speech scientists working with disordered speech have been at the forefront of recent work Some instrumental developments such as electropalatography and some transcription developments such as extIPA symbols have been spearheaded by clinical phoneticians The present collection describes and explores these developments Part one consists of major accounts of advances in clinical phonetics contributed by major international researchers Raymond D Kent William Hardcastle Martin J Ball and John Local and Wolfram Ziegler and Erich Hartmann The second part comprises six chapters where such advances are illustrated in the context of specific case studies by authors from America and Europe Fiona Gibbon William Hardcastle Hilary Dent and Fiona Nixon Marie Thérèse Le Normand and Claude Chevrie Muller Kate Moore and Anna Maja Korpijaakko Huuhka Martin J Ball and Joan Rahilly P Dejonckere and G Wieneke Nigel Hewlett Nicola Topham and Catherine McMullen and Shaween Awan Demonstrating the wideranging and lively nature of the field of clinical phonetics the current contributions offer building blocks for further developments in phonetic description both improvements in instrumentation and refinements in impressionistic transcription leading to an increase in our understanding of the speech production

process both in normal and atypical speakers Handbook of Emotion Elicitation and Assessment James A. Coan, John J.B. Allen, 2007-04-19 Emotion research has become a mature branch of psychology with its own standardized measures induction procedures data analysis challenges and sub disciplines During the last decade a number of books addressing major questions in the study of emotion have been published in response to a rapidly increasing demand that has been fueled by an increasing number of psychologists whose research either focus on or involve the study of emotion Very few of these books however have presented an explicit discussion of the tools for conducting research despite the facts that the study of emotion frequently requires highly specialized procedures instruments and coding strategies and that the field has reached a place where a large number of excellent elicitation procedures and assessment instruments have been developed and validated Emotion Elicitation and Assessment corrects this oversight in the literature by organizing and detailing all the major approaches and instruments for the study of emotion It is the most complete reference for methods and resources in the field and will serve as a pragmatic resource for emotion researchers by providing easy access to a host of scales stimuli coding systems assessment tools and innovative methodologies This handbook will help to advance research in emotion by encouraging researchers to take greater advantage of standard and well researched approaches which will increase both the productivity in the field and the speed and accuracy with which research can be communicated Acoustics and Psychoacoustics David Martin Howard, James A. S. Angus, Jamie Angus, 2001 This book provides a comprehensive introduction to the subject of acoustics including the principles of human perception of sound sometimes called psychoacoustics Acoustics and Psychoacoustics is ideal for students of music technology sound recording traditional music and acoustics as well as engineers studying audio multimedia and communications systems Anyone who wants a practical understanding of how real musical sounds behave and are perceived in real spaces will find this an accessible and interesting read Subjects featured include Principles of sound Human hearing and psychoacoustics Musical timbre pitch and loudness perception Sound generation in musical instruments Sound in different environments architectural acoustics Processing sound electronically The book's second edition provides new material on wave motion brass and woodwind instruments forward and backward masking an introduction to coding and diffusion Additional references and marginal notes explaining basic terms are provided to aid understanding Supporting website <http://www.users.york.ac.uk/dmh8/AcPsych/acpsyc.htm> Visit the book's supporting website designed by author David Howard for additional resources Questions and exercises to test your knowledge Web links for further resources and research Audio clips Calculation facilities eg adding decibel values and converting between frequency ratio and cents semitones The website can also be reached via www.focalpress.com Professor David M Howard lectures on music technology at the University of York's Electronics Department His research interests include the analysis and synthesis of music speech and singing human hearing modelling and the use of computer displays in voice teaching He is an active organist choral singer and choral conductor Dr James Angus was an instigator of the music

technology courses at York where he formerly lectured He is now an independent consultant and researches in the area of acoustics in particular diffuser design and audio signal processing Acoustics and Psychoacoustics is part of the Focal Press Music Technology Series **Manual of Clinical Phonetics** Martin Ball,2021-04-11 This comprehensive collection equips readers with a state of the art description of clinical phonetics and a practical guide on how to employ phonetic techniques in disordered speech analysis Divided into four sections the manual covers the foundations of phonetics sociophonetic variation and its clinical application clinical phonetic transcription and instrumental approaches to the description of disordered speech The book offers in depth analysis of the instrumentation used in articulatory auditory perceptual and acoustic phonetics and provides clear instruction on how to use the equipment for each technique as well as a critical discussion of how these techniques have been used in studies of speech disorders With fascinating topics such as multilingual sources of phonetic variation principles of phonetic transcription speech recognition and synthesis and statistical analysis of phonetic data this is the essential companion for students and professionals of phonetics phonology language acquisition clinical linguistics and communication sciences and disorders Acoustics and Psychoacoustics David M. Howard,Jamie Angus,2017-06-13 The acoustics of a space can have a real impact on the sounds you create and capture Acoustics and Psychoacoustics Fifth Edition provides supportive tools and exercises to help you understand how music sounds and behaves in different spaces whether during a performance or a recording when planning a control room or listening space and how it is perceived by performers listeners and recording engineers With their clear and simple style Howard and Angus cover both theory and practice by addressing the science of sound engineering and music production the acoustics of musical instruments the ways in which we hear musical sounds the underlying principles of sound processing and the application of these concepts to music spaces to create professional sound This new edition is fully revised to reflect new psychoacoustic information related to timbre and temporal perception including an updated discussion of vocal fold vibration principles samples of recent acoustic treatments and a description of variable acoustics in spaces as well as coverage of the environment s effect on production listening sonification and other topics Devoted to the teaching of musical understanding an accompanying website www.routledge.com/cw/howard features various audio clips tutorial sheets questions and answers and trainings that will take your perception of sound to the next level This book will help you Gain a basic grounding in acoustics and psychoacoustics with respect to music audio technology systems Incorporate knowledge of psychoacoustics in future music technology system designs as appropriate Understand how we hear pitch loudness and timbre Learn to influence the acoustics of an enclosed space through designed physical modifications Textbook of Laryngology Nupur Kapoor Nerurkar,2017-09-30 This book is a comprehensive guide to the latest advances and techniques in laryngology Divided into six sections the text begins with an overview of the history and basic anatomy and physiology of the larynx The following section discusses clinical evaluation investigation and diagnosis The remaining sections cover the management of

numerous voice disorders including phonosurgery treatment of inflammatory endocrine and functional voice disorders and airway and swallowing problems The final chapter describe recent advances in the field such as laryngeal transplantation robotic surgery and vocal cord regeneration The book is highly illustrated with intraoperative photographs and diagrams and clinical pearls summarising key points at the end of each chapter enhance learning Key points Comprehensive guide to latest advances and techniques in laryngology Covers management of numerous voice disorders Includes recent advances in surgery and vocal cord regeneration Clinical pearls highlight key points in each chapter The Craft of Singing Garyth Nair,2007 **Clinical Assessment of Voice, Second Edition** Robert Thayer Sataloff,2017-09-22 In Clinical Assessment of Voice Second Edition Dr Sataloff brings together a dynamic group of professionals who share his interdisciplinary philosophy of voice care They provide an introduction to medical diagnostics and special problems with professional performers and voice users and offer a rare look at the assessment procedures used by the top voice care teams in the world Clinical Assessment of Voice Second Edition includes chapters written by individuals with specialties in laryngology teaching of singing and acting voice science and speech language pathology nursing and acoustics Starting with an extensive case history and following with the physical examination the objective documentation in the voice laboratory and the latest diagnostic imaging with laryngeal computed tomography and stroboscopy the chapters delineate the possible diagnoses and treatment approaches that currently represent the state of the art in assessment of voice disorders Added is current information on the medical legal evaluation now ever more important for the professional performer New to this edition New chapters on high speed digital imaging evolution of technology magnetic resonance imaging pediatric voice disorders and thyroid disorders Many chapters have been rewritten extensively to include the most recent practices and techniques as well as updated references Discussion of a large number of studies that were not addressed previously and a review of the latest literature while also retaining classic literature New information on topics such as measuring voice treatment outcomes World Trade Center syndrome and laryngeal effects of asbestos exposure A selection of new authors who provide an interdisciplinary approach and valuable insights into the care of vocal performers Clinical Assessment of Voice Second Edition is ideal for speech language pathology students and clinicians and is suitable for classroom use as well as for reference For practicing otolaryngologists and speech language pathologists it is an invaluable guide for understanding the techniques for proper diagnosis and for organizing a plan of treatment For singers and performers knowledge of the assessment process is presented in a manner that allows them to determine what level of assessment they should pursue for the most current treatment **Cummings Otolaryngology - Head and Neck Surgery E-Book** Paul W. Flint,Bruce H. Haughey,Valerie J. Lund,John K. Niparko,K. Thomas Robbins,J. Regan Thomas,Marci M. Lesperance,2014-11-28 Now in its 6th edition Cummings Otolaryngology remains the world s most detailed and trusted source for superb guidance on all facets of head and neck surgery Completely updated with the latest minimally invasive procedures new clinical photographs and

line drawings this latest edition equips you to implement all the newest discoveries techniques and technologies that are shaping patient outcomes Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive multi disciplinary text in the field Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Overcome virtually any clinical challenge with detailed expert coverage of every area of head and neck surgery authored by hundreds of leading luminaries in the field Experience clinical scenarios with vivid clarity through a heavily illustrated full color format which includes approximately 3 200 images and over 40 high quality procedural videos Get truly diverse perspectives and worldwide best practices from a multi disciplinary team of contributors and editors comprised of the world s leading experts Glean all essential up to date need to know information All chapters have been meticulously updated several extensively revised with new images references and content Stay at the forefront of your field with the most updated information on minimally invasive surgical approaches to the entire skull base vestibular implants and vestibular management involving intratympanic and physical therapy based approaches radiosurgical treatment of posterior fossa and skull base neoplasms and intraoperative monitoring of cranial nerve and CNS function Apply the latest treatment options in pediatric care with new chapters on pediatric sleep disorders pediatric infectious disease and evaluation and management of the infant airway Find what you need faster through a streamlined format reorganized chapters and a color design that expedites reference Manage many of the most common disorders with treatment options derived from their genetic basis Assess real world effectiveness and costs associated with emergent technologies and surgical approaches introduced to OHNS over the past 10 years Incorporate recent findings about endoscopic microscopic laser surgically implantable radiosurgical neurophysiological monitoring MR and CT imaging and other timely topics that now define contemporary operative OHNS Take it with you anywhere With Expert Consult you ll have access the full text video clips and more online and as an eBook at no additional cost

Occupational Voice Philippe H. Dejonckere, 2001 Introduction The concept of occupational voice disorders Philippe H Dejonckere People using their voice professionally are at risk for occupational voice diseases and require specific prevention and treatment was the topic focused on by the third Pan European Voice Conference organized in August 1999 at Utrecht University The present book includes the main tutorial lectures with reviews of the most relevant research data and opinions regarding this specific area of concern Occupational voice users include not only singers and actors but also teachers politicians lawyers clergymen telephone operators etc 1 The pathogenesis of voice disorders in such patients can be primarily related to their occupation and thus after adequate differential diagnosis these need to be recognized as true occupational diseases in the same way as for example occupational hearing loss 2 A surfeit of information is available on the potential damage from exposure to excessive noise levels 3 4 Noise induced hearing loss is generally recognized as a typical occupational disease The relationship between dose and effect is clear as is documented in publications by the International Organization of Standardization ISO 5 The dose combines

intensity and duration and therefore the concept of dosimetry is of major importance. Also of importance is the definition of the safe limits for exposure to noise. However, factors regarding individual susceptibility to noise and the reversibility of early effects also have to be considered as well as possible preventive indices of noise induced hearing loss.⁶ In some but not all respects noise induced hearing loss may be considered as a useful model for occupational voice disorders. Epidemiology Titze⁷ compared the percentage of the US working population and of the voice clinic load for different occupation categories for example telephone marketers constitute only 0.78% of the total workforce but 2.3% of the clinic load teachers represent 4.2% of the US workforce and 20% of the voice clinic load. Studies based on questionnaires have suggested that teachers and aerobic instructors are at high risk for disabilities from voice disorders and that these health problems may have significant work related and economic effects.^{8,9} For example Russel et al¹⁰ investigated the prevalence of self reported voice problems in teachers 16% of teachers reported voice problems on the day of the survey 20% during the current teaching year and 19% at some time during their career. Roughly speaking we can conclude from the several studies published during the 1990s that about 20% of teachers experience voice disorders.¹¹ Voice dosimetry Objective measurement of vocal use and vocal load is necessary for the identification of activities and working conditions that are at risk. Voice dosimeters can provide information on the total vocalization time and sound pressure level over a whole working day in a real life situation.¹²⁻¹⁴ Just as noise dosimeters define acceptable levels of noise exposure voice dosimeters help to define the average acceptable limits for vocal load. Hyperphonation Repeated mechanical vibrations transmitted to the body tissues by engines or machines are known to be able of eliciting in certain conditions specific kinds of pathology which are also considered to be occupational diseases.^{15,16} The vibration may involve the whole body e.g. in a vehicle or mainly the hand wrist elbow or shoulder hand held power tools. There are standards in the field of occupational health that stipulate the acceptable limits for tissue acceleration values depending on the frequency.¹⁷ Titze's calculations suggest that the risk of damage from tissue vibration is exceeded by occupational vocalists such as telephone marketers and teachers.¹⁸ In the last few years much new and important information has materialized on the dangers of hyperphonation i.e. loud and prolonged phonation beyond the physiological range. Laboratory experiments on canine larynges hyper phonated in vivo under anesthesia demonstrated obvious damage to vocal fold epithelia.¹⁹ The basement membrane shows early lesions and seems to be particularly sensitive.²⁰ A clinical study by Mann et al²¹ in drill sergeants demonstrated significant increases in vocal fold edema erythema and edge irregularity and decreases in vocal fold mucosal wave and amplitude of excursion following a five day training period. Voice fatigue relief and recovery According to Titze¹⁸ two different aspects must be considered. Muscle fatigue the muscle chemistry needs to be reset for the following contractions. Epithelial cells may die and be shed due to repeated traumata. New cells have to develop underneath. Collagen and elastin fibers may have separated from the structural matrix of the lamina propria and have to be removed and replaced by the fibroblasts. Detached protein debris will be removed and re used by the

fibroblasts to make new protein fibers that will support the connective tissue structure Therefore minor destruction and repair is continuous Can the regenerative processes keep up with the destructive process and what are the physiological time constants in these processes When there is damage to the joints ligaments tendons or other connective tissue the recovery time will be proportional to the amount of localized tissue injury that has occurred If muscle fatigue is the only complaint the recovery period required will probably be shorter Hypothetical curves for tissue injury and the recovery period for human phonation have been suggested by Titze 18 Nevertheless vocal fatigue is still difficult to identify in practical and clinical situations and Buekers has questioned the clinical relevance of voice endurance tests 13 14 Environmental factors The relative humidity of the air affects vocal function the most common subjective complaints of teachers with regard to their working environment are the dryness and dustiness of the air Professional singers note that singing is more difficult in a dry environment dry air puts an increased strain on the phonatory apparatus and raises the demands on its efficacious and appropriate use 22 The human voice is very sensitive to decreases in the relative humidity of inhaled air because in experimental conditions even after short provocation a significant increase in perturbation measures has been found 23 Noise is also a very common and relatively well known risk factor in the working environment of professional voice users It has been observed that the sound level of the speaking voice significantly increases in ambient noise levels starting from 40 dB A about 3 dB for each 10 dB increase in ambient noise due to the Lombard effect 24 25 In kindergartens for example noise levels have been found to vary between 75 and 80 dB A 26 27 Effects of stress Mendoza and Carballo investigated the effects of experimentally induced stress on voice characteristics 28 In conditions of stress induced by means of a stressful environment and cognitive workload tasks they observed 1 an increase in F_0 with respect to baseline 2 a decrease in pitch perturbation quotient and in amplitude perturbation quotient 3 a lower presence of turbulent noise in the spectral zone in which the existence of harmonic components is not expected 2800 5800 Hz with respect to harmonic energy in the 70 4500 Hz range 4 an increase in harmonic energy in the 1600 4500 Hz range with respect to harmonic energy in the 70 1600 Hz range The increase in F_0 seems to be considered a universal indicator of stress and of cognitive workload as is the lowering of F_0 perturbation The response to a stressful stimulus demands a high level of activation which in turn produces elevated ergotropic arousal that would cause an increase in the tension of the vocal muscles producing a higher and more tense voice Mattiske et al 29 report that teachers seem to experience a significant degree of stress during their work 30 and there is some research evidence that anxiety and stress are associated with the development of voice problems 31 Marks 32 compares teachers voices with those of nurses and finds that psychological stress is reported more frequently by teachers There are indications that stress psychological tension personality and other psychological factors may play an important role in voicing problems among teachers 30 33 34 Vocal fold lesions Phonotrauma may result in typical vocal fold lesions to be interpreted as a direct consequence of mechanical stress and or as tissue reaction to that stress Vocal fold nodules and

polyps are classical examples 35 36 but also contact ulcerations granulomas of the vocal processes 35 36 37 if not induced by acid re flux Vocal fold hemorrhage is generally consecutive to acute phonotrauma 35 Depending on reversibility and context microsurgery may become indicated as an important element of the treatment 38 39 Care and cure Patients with occupational voice disorders should benefit from specific medical and paramedical treatments as well as from technical aids with respect to their particular pathogenesis There are major economical aspects at stake and occupational rehabilitation plays an important role In a few cases compensation and professional re orientation is necessary Outcomes of the various possible treatment strategies have still to be investigated However prevention is still essential There are indications that vocal hygiene education programs could improve the voice by reducing vocal abuse in daily life and by practising specific strategies to maintain classroom order and to reduce the use of the voice during teaching 40 Further research is needed to demonstrate the usefulness of prevention strategies on the incidence of actual voice disorders

Clinical Phonetics

Lawrence D. Shriberg, Raymond D. Kent, 2003 Introducing the art and science of clinical transcription this text covers the phonetics of American English provides skills teaching in clinical transcription using four hours of audio examples and discusses clinically relevant topics The text reviews phonetic transcription presents phonetic analyses of infant vocalizations and presents information on transcription reliability from a clinical perspective A Web site allows students to produce all of the phonetic symbols and diacritics in the book This third edition features a new appendix on the origins and phonetic principles of dialects The authors are affiliated with the University of Wisconsin Annotation copyrighted by Book News Inc Portland OR

Communication Sciences and Disorders: From Science to Clinical Practice Ronald B. Gillam, Thomas P. Marquardt, 2019-10-01 Communication Sciences and Disorders From Science to Clinical Practice Fourth Edition is an excellent introductory text for undergraduate students enrolled in their first course in communication sciences and disorders Written by experts in the field this text contains basic information about speech disorders that are related to impairments in articulation voice and fluency language disorders in children and adults and hearing disorders that cause conductive and sensorineural hearing losses It includes basic information on the speech language and hearing sciences and practical information about assessment and intervention practices This new edition provides readers with a wide angle view of communication disorders stressing a sense of the variety of topics that speech language and hearing scientists study and the variety of individuals that Audiologists and Speech Language Pathologists treat

Time Will Tell Mari Riess Jones, 2019 Attention is a central concept in psychology The term attention itself has persisted even though it implies a static insulated capacity that we use when it is necessary to focus upon some relevant or stimulating event Riess Jones presents a different way of thinking about attention one that describes it as a continuous activity that is based on energy fluctuating in time A majority of attention research fails to examine influence of event time structure i e a speech utterance on listeners moment to moment attending General research ignores listeners endowed with innate as well as acquired temporal biases Here

attending is portrayed as a dynamic interaction of an individual within his or her surroundings. Importantly, this interaction involves synchronicity between an attender and external events. This emphasis on time and synchronicity distinguishes the author's theory, called Dynamic Attending Theory (DAT), from other approaches to attending which characterize attention metaphorically as a filter, resource pool, spotlight, and so on. Recent research from neuroscience has lent support to Treisman's theory, and the goal of this book is to bring this new research, as well as her own, to the wide audience of psychologists interested in attention more broadly.

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