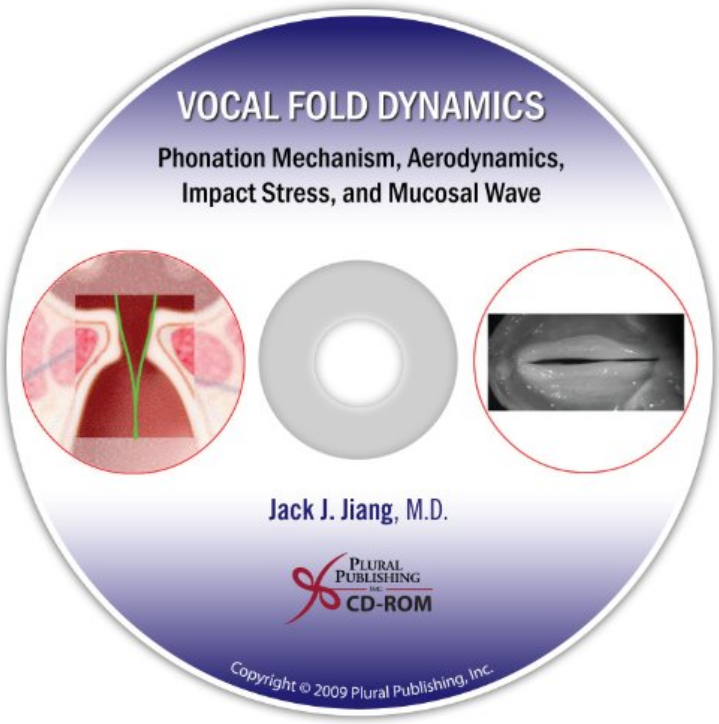
Vocal Fold Dynamics: Phonation Mechanism, Aerodynamics, Impact Stress, and Mucosal Wave

Jack J., M.D. Jiang



#6860320 in Books 2008-11-30Original language:English 5.00 x 5.50 x .25l, .25 Binding: CD-ROM | File size: 33.Mb

Jack J., M.D. Jiang : Vocal Fold Dynamics: Phonation Mechanism, Aerodynamics, Impact Stress, and Mucosal Wave before purchasing it in order to gage whether or not it would be worth my time, and all praised Vocal Fold Dynamics: Phonation Mechanism, Aerodynamics, Impact Stress, and Mucosal Wave:

From one of the world s leading laryngologists, Vocal Fold Dynamics: Phonation Mechanism, Aerodynamics, Impact Stress, and Mucosal Wave is an interactive software program that clearly demonstrates the physical properties of vocal fold dynamics and provides the user with vivid animations of the vocal folds during normal phonation. Designed for interactive instruction whether for voice professional or client the product features four animation modules: phonation mechanism, aerodynamics, impact stress, and mucosal wave. The phonation mechanism animation shows the changes in glottal airflow and subglottal pressure involved in the initiation of phonation; the aerodynamics animation demonstrates the vocal fold pressure and intraglottal airflow distributions during the closed, half-open, open, and half-closed stages of phonation; the impact stress animation shows the development of impact pressure, along with the motion of the vocal folds during normal phonation; the mucosal wave animation introduces the user to the concept of

mucosal wave. This animation first presents mucosal wave by explaining the motion of a wave on a string and then moves to show the application of this wave concept to vocal fold movement. This software provides valuable instructional tools for otolaryngologists, linguists, speech-language pathologists, speech scientists, and other voice and speech professionals, and their clients.

About the AuthorJack Jiang, MD, is a professor in the Division of Otolaryngology and Biomedical Engineering at the University of Wisconsin Medical School, Madison, his current research endeavors focus on the vibratory properties of the vocal folds via studies of excised larynges, biomechanical modeling, aerodynamics, and analysis of laryngeal microstructure.