

# Vocal Fold Dynamics Phonation Mechanism Aerodynamics Impact Stress And Mucosal Wave

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### Vocal Fold Dynamics Phonation Mechanism

#### **Fluid Dynamics of Phonation - DiVA portal**

weakness of the vocal cord (vocal fold paralysis) Studying the fluid dynamics of phonation does not only help in understanding the complexity of human voice but even in coming up with potential solutions for ...

#### **Characteristics of phonation onset in a two-layer vocal ...**

vocal fold body and cover and vocal fold geometry on pho-nation threshold pressure, phonation onset frequency, vocal fold vibration, and sound production efficiency A two-layer body-cover model of the ...

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Mechanism ...

### **BIOMECHANICAL MODELING OF GLOTTAL AERODYNAMICS AND ...**

Phonation is a complex biological phenomenon which results from the coupled biomechanical interaction between glottal aerodynamics and vocal fold tissue. Due to the complexity and nonlinearity of flow ...

#### **Influence of vocal fold stiffness and acoustic loading on ...**

was shown that synchronization of the vocal fold to subglottal acoustics may lead to various irregular vibration patterns (subharmonics and biphonation) [16]. In addition, Titze [17] proposed that the constructive or destructive interference of the subglottal acoustics with vocal fold vibration may be a mechanism ...

#### **Dynamics of the Vocal Fold Oscillation1 - SBMAC**

Dynamics of the Vocal Fold Oscillation1 JC LUCERO2, Department of Mathematics, UnB, 70910-900 Bras ́ilia, DF, Brazil Abstract This paper presents an analysis of the dynamics of the vocal fold oscil ...

#### **continuum model of phonation Zhaoyan Zhang, Juergen ...**

Physical mechanisms of phonation onset: A linear stability analysis of an aeroelastic continuum model of phonation Zhaoyan Zhang, a Juergen Neubauer, and David A Berry The Laryngeal Dynamics ...

#### **Direct-numerical simulation of the glottal jet and vocal ...**

Phonation results from a complex nonlinear biomechanical coupling between glottal aerodynamics and vocal fold tissue. Computational modeling of phonation usually involves two key constituents, the ...

#### **Simulations of Vocal Fold Dynamics using MPMICE**

Outline Basics of the structure of the larynx and the mechanism for the production of sound Brief outline of MPMICE in relation to the vocal fold and aerodynamics problem Preliminary vocal fold material ...

#### **Modal locking between vocal fold and vocal tract ...**

ical and physical models as well as in in vivo phonation We propose a computational time-domain model of the full speech apparatus that, in particular, contains a feedback mechanism from the vocal tract ...

#### **PVG-WAVEGRAMS: THREE-DIMENSIONAL VISUALIZATION OF ...**

assessment Especially long phonation recordings produce several hundred megabytes of digital data We present a technique for visualizing these high-speed videos in a compact and intuitive form The ...

#### **A Computational Study of the Effect of False Vocal Folds ...**

A Computational Study of the Effect of False Vocal Folds on Glottal Flow and Vocal Fold Vibration During Phonation XUDONG ZHENG, 1 STEVE BIELAMOWICZ, 2 HAOXIANG LUO, 3 and RAJAT MITTAL 1 ...

#### **Stimulated Production of Vowel-Like LX-Waveforms and ...**

Impedance 'LX' waveforms measured across the neck at the thyroid level during phonation are known to be correlated with vocal fold movement. Changes in vocal fold contact are thought to be the cause of ...

#### **Review on Mathematical and Mechanical Models of the Vocal Cord**

of the process of phonation. It is the reason that a numerous aspects of the problem are investigated, and a great number of results are published

more than 1000 This paper gives a review only of the ...

### **Analysis of flow-structure interaction in the larynx during ...**

Analysis of flow-structure interaction in the larynx during phonation using an immersed-boundary method Haoxiang Luo Department of Mechanical Engineering, Vanderbilt University, 2301 Vanderbilt Place, ...

### **On Vibration Properties of Human Vocal Folds**

–vec: On Vibration Properties of Human Vocal Folds 11 Introduction There are two main aims of the dissertation: 1. to provide new information on discontinuities in the transition between chest and falsetto voice registers (As shown here, the question of transition between chest and falsetto registers is highly complex and addresses the problem of the basic underlying mechanism ...

### **Resonance Properties of the Vocal Folds: In Vivo ...**

mechanism of the vibration These characteristics can be used to describe inherent vibration properties of the vocal folds Information on the dynamic characteristics of the true vocal folds has been rather ...

### **Toward a simulation-based tool for the treatment of vocal ...**

continuum Bao Sed modeling of Vocal fold dynamicS In this section, we describe the continuum based modeling of the VFs dynamics using a finite-element solver An open-source C++ finite-element solver ...