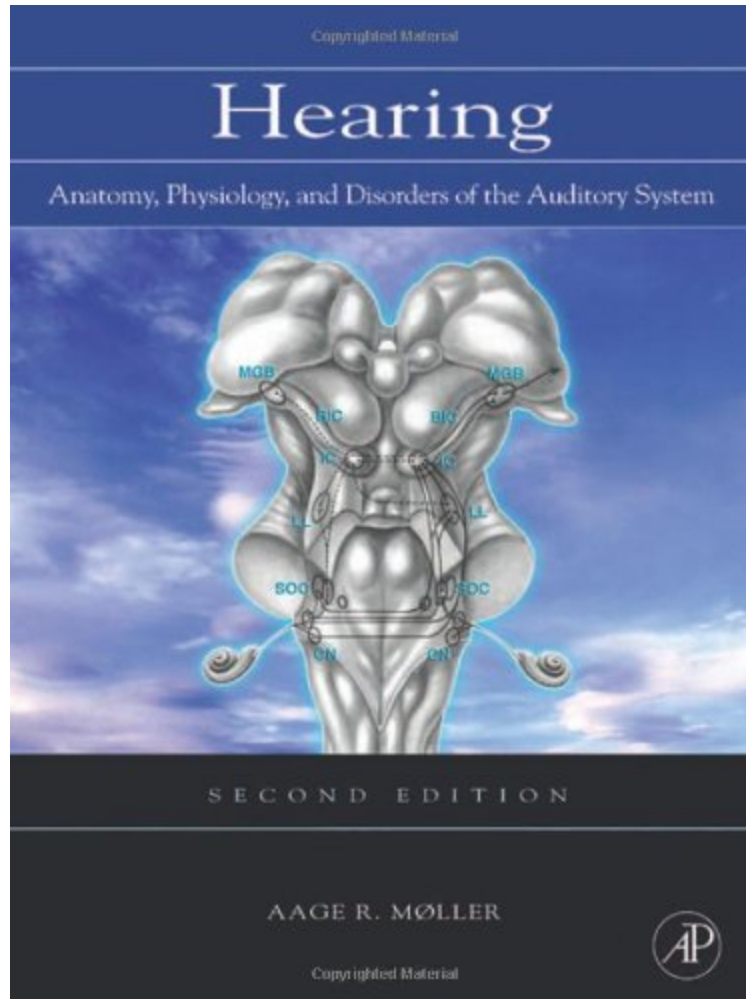


(Library ebook) Hearing, Second Edition: Anatomy, Physiology, and Disorders of the Auditory System

# Hearing, Second Edition: Anatomy, Physiology, and Disorders of the Auditory System

Aage R. Møller

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Hearing: Anatomy, Physiology and Disorders of the Auditory System provides detailed information about the anatomy

and physiology of the entire auditory system and it describes important aspects of disorders of the middle ear, the cochlea, and the nervous system in a comprehensive manner. Most other textbooks on Hearing are focused on either the periphery or the central nervous system and rarely integrate anatomy and physiology with clinical issues. In the past years, it has become apparent that pathologies of the peripheral parts of the auditory system affect the function of the nervous system, and vice versa. It is thus more and more important to view the peripheral and central parts of the auditory system in an integrative way. This book integrates descriptions of disorders of the ear and the nervous system and provides a comprehensive coverage of anatomy and physiology of the entire auditory system. The book introduces the role of neural plasticity in the symptoms of disorders such as tinnitus, hyperacusis and phonophobia. A separate chapter discusses cochlear and auditory brainstem implants. This book provides a thorough understanding of the anatomy and function of the auditory system Provides thorough information on the peripheral nervous system and auditory organs as well as the central nervous system As valuable for students of and researchers in basic sciences (biology, psychology, neuroscience, audiology etc) as for clinicians Offers an introduction into psychoacoustics and physical acoustics Presents information on important disorders of the auditory system (including Tinnitus, Includes chapter on cochlear and auditory brainstem implants Fully illustrated with carefully selected images

In *Hearing: Anatomy, Physiology, and Disorders of the Auditory System* (Second Edition), Aage R. Mller aims to educate those who will be researching and diagnosing hearing disorders, as well as provide a general understanding of how this complex system works. The book offers an excellent foundation of anatomy and physiology of the system, and goes into great detail on disorders and diagnostic procedures.--Wafaa A. Kaf, M.D., PhD, CCC-A, Assistant Professor Missouri State University Communication Sciences Disorders, Springfield, MO, BOOK REVIEWS AMERICAN ACADEMY OF AUDIOLOGY website. Rating: 4 out of 5 ears.From the Back CoverHearing: Anatomy, Physiology and Disorders of the Auditory System provides detailed information about the anatomy and physiology of the entire auditory system and it describes important aspects of disorders of the middle ear, the cochlea, and the nervous system in a comprehensive manner. Most other textbooks on Hearing are focused on either the periphery or the central nervous system and rarely integrate anatomy and physiology with clinical issues. In the past years, it has become apparent that pathologies of the peripheral parts of the auditory system affect the function of the nervous system, and vice versa. It is thus more and more important to view the peripheral and central parts of the auditory system in an integrative way. This book integrates descriptions of disorders of the ear and the nervous system and provides a comprehensive coverage of anatomy and physiology of the entire auditory system. The book introduces the role of neural plasticity in the symptoms of disorders such as tinnitus, hyperacusis and phonophobia. A separate chapter discusses cochlear and auditory brainstem implants. Provides a thorough introduction into the anatomy and physiology of the auditory system and its disorders Thorough information on the peripheral nervous system and auditory organs as well as the central nervous system As valuable for students of and researchers in basic sciences (biology, psychology, neuroscience, audiology etc) as for clinicians Includes introduction into psychoacoustics and physical acoustics Includes information on important disorders of the auditory system (including Tinnitus, Includes chapter on cochlear and auditory brainstem implants Fully illustrated with carefully selected imagesAbout the AuthorDr. Mller is currently the M.F. Jonsson Professor of Hearing, University of Texas at Dallas, the Callier Center for Communication Disorders. He was on the faculty of the University of Pittsburgh School of Medicine for 19 years, where he held positions as Research Professor of Otolaryngology and later of Neurological Surgery. From 1988 to 1997 he held the position of Professor of Neurological Surgery. He received his medical education at the Karolinska Institutet in Stockholm, Sweden, where he also held faculty positions for more than 10 years. Dr. Mller is founder and Editor-in-Chief of the international journal *Hearing Research*.