



# Acoustic Immittance Measures: Basic and Advanced Practice (Core Clinical Concepts in Audiology)

By Lisa Hunter, Navid Shahnaz

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## Acoustic Immittance Measures: Basic and Advanced Practice (Core Clinical Concepts in Audiology) By Lisa Hunter, Navid Shahnaz

This book provides an accessible and easy to understand treatment of acoustic immittance, from basic to advanced measures. Laboratory exercises and clinical cases from actual practice are provided, with focused questions to elicit classroom discussion.

**This book is a volume in the Core Clinical Concepts in Audiology series.**

### From the Foreword:

"*Acoustic Immittance Measures: Basic and Advanced Practice* by Lisa Hunter and Navid Shahnaz is a long-overdue update on important test procedures that are applied each and every day in clinical audiology practice. The book begins with a current review of the principles underlying acoustic immittance, including anatomy and physiology of the outer and middle ear. Separate chapters are then devoted to a practical discussion of each immittance measure, including single-frequency tympanometry, multiple-frequency tympanometry, the acoustic stapedial reflex, and wideband reflectance. Wide band reflectance is a novel approach for evaluation of middle ear function. The final two book chapters are devoted to a systematic description of specific clinical applications of acoustic immittance in infants and children with varied auditory disorders.

We believe that this text will provide the reader with the basic knowledge and the clinical information necessary to exploit acoustic immittance measures in clinical audiology for many years to come."

Series Editors,  
James W. Hall III, PhD  
Virginia Ramachandran, AuD, PhD

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### Editorial Review

#### Review

*...this book broaches a daunting and challenging task to provide a comprehensive update on immittance measures. It makes the case for incorporating new measurement techniques into clinical practice, and is an excellent resource for currently-practicing clinicians to derive more information from measures already in use. Readers of several different levels and backgrounds will benefit from this text. It contains some basic information for students, while also providing more in depth reviews of research for the advanced reader, and case examples and normative data for clinical reference. Overall, the book is well written, and offers a significant contribution to the field of audiology. It is recommended for graduate students and instructors, and for clinicians looking to review and update their knowledge.* --**Jaimie Gilbert, Communication Sciences and Disorders University of Wisconsin - Stevens Point, USA. International Journal of Audiology (2015)**

#### About the Author

**Lisa L. Hunter, PhD, FAAA** is an associate professor of otolaryngology at Cincinnati Children's Hospital Medical Center. She is the principle investigator of a National Institutes of Health project on Newborn Hearing Screening and Diagnosis, and has completed several research grants in Otitis Media and Hearing Loss in Children. She has authored over 50 publications on otitis media, pediatric audiology and diagnostic audiology, and has given over 100 national and international presentations. She has chaired numerous committees for national professional organizations and is a member of the Board of Directors of the Accreditation Commission for Audiology Education as well as a past member of the Board of Directors of the American Academy of Audiology.

**Navid Shahnaz, PhD, Aud (C)**, is an Associate Professor of Audiology in the School of Audiology & Speech Sciences at The University of British Columbia (UBC), where he has been since July 2002. He has also been working as an audiologist during this time in a private practice. Before joining UBC he was an Assistant Professor of Speech and Hearing Sciences at University of Arizona. He received his MSc (1996) and PhD (2000) degree in audiology and communication sciences and disorders from The School of Communication Sciences and Disorders, McGill University. During his residency at McGill University, he served as a faculty lecturer and clinical supervisor of audiology for three years. Before joining McGill University to pursue his studies he was working as a clinical audiologist, instructor, and researcher for six years at Tehran Medical Sciences University and in other private practice sectors in Tehran, Iran. Dr. Shahnaz's main area of research interest is diagnostic audiology, specifically multi-frequency tympanometry and wide-band energy reflectance in newborns, children, and adults.

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