



# New Handbook for Auditory Evoked Responses

By James W. Hall

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**New Handbook for Auditory Evoked Responses** By James W. Hall

**Written for graduate students and practicing clinicians, the *New Handbook for Auditory Evoked Responses* is an up-to-date and comprehensive source of practical information about auditory evoked responses, from electrocochleography to cortical responses.**

Authored by a clinical audiologist who records auditory evoked responses daily in his clinical practice, this book maintains a consistent writing-style and difficulty level from beginning to end. The content is of direct interest to clinical audiologists and others involved in the clinical measurement of auditory evoked responses. The book includes an extensive review of test principles, protocols, and procedures required for clinical application of auditory evoked responses. The practical coverage of material includes guidelines for trouble-shooting and solving problems commonly encountered in the field.

Principles common to different auditory evoked responses, including anatomy and physiology and general measurement principles (Chs. 1-3), are introduced, allowing readers to learn the material from only this source without having to purchase an additional book to master the basics. At least one chapter is devoted to each major auditory evoked response, beginning with cochlear responses and continuing to the cortical evoked responses, electric evoked responses, and non-auditory responses (Chs. 4-16). Readers are taught to record, analyze and interpret responses for various patient populations (Chs. 4-16). Includes readable and clinically oriented reviews of extensive literature on complex responses, such as the P300 and MMN (Chs. 4-16), making it the only book of its kind to present a balanced coverage of evoked responses recorded from the entire auditory system (cochlea to cortex). The literature on auditory evoked responses in diverse pathologies is reviewed and related to back to clinical practice so that readers do not have to locate additional journal articles (Chs. 4-16). Important concepts, including the effects of measurement parameters and pathologies on auditory evoked responses, are illustrated through hundreds of clear drawings, to help enhance learning (Chs. 4-16).

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### Editorial Review

#### Review

“I can say with no reservations this manuscript is excellent and I am thrilled with the manner Dr. Hall has presented the information. This will be a textbook for both beginning students in audiology and those experienced clinical audiologists. The manner in which Dr. Hall discusses and explains the various technical concepts and terms makes reading this textbook extremely easy...This new edition will be an even greater success and will find its way into the hands of those audiologists not previously exposed to Dr. Hall’s textbook.” —*Steven D. Smith, Auburn University*

“The sections on auditory steady state responses, auditory neuropathy, and mismatch negativity are excellent additions to this textbook. ... This text is much more comprehensive in nature [than competing books] and includes a much more detailed clinical application of auditory evoked potential measurements.” —*Albert R. De Chicchis, University of Georgia*

#### From the Back Cover

#### New Handbook of Auditory Evoked Responses

**James W. Hall, University of Florida**

ISBN: 0205361048

“This manuscript is excellent. This will be a textbook for both beginning students in audiology and those experienced clinical audiologists. The manner in which Dr. Hall discusses and explains the various technical concepts and terms makes reading this textbook extremely easy.”

—*Steven D. Smith, Auburn University*

“This text is much more comprehensive in nature [than competing books] and includes a much more detailed clinical application of auditory evoked potential measurements.”

—*Albert R. De Chicchis, University of Georgia*

The *New Handbook of Auditory Evoked Responses* is ideal for graduate students as well as practicing clinicians. Authored by a leading clinical audiologist, the text is both complex and accessible, offering extensive review of test principles, protocols, and procedures for clinical application. The practical coverage of material includes guidelines for solving problems unique and common to the field and invites students to record, analyze, and interpret responses for various patient populations.

Highlights of this new text:

- **Focus on principles common to different auditory evoked responses**, including anatomy and physiology and general measurement principles (Chs. 1-3).
- A series of readable and clinically oriented reviews of extensive literature on complex responses, such as the P300 and MMN (Chs. 4-16), making it **the only textbook of its kind to present a balanced coverage**

- **of evoked responses recorded from the entire auditory system** (cochlea to cortex).
- **Reviews and relates the literature** on auditory evoked responses in diverse pathologies **to clinical practice** so that students do not have to locate and read additional journal articles (Chs. 4-16).
- **Illustration of important concepts**, including the effects of measurement parameters and pathologies on auditory evoked responses, with **hundreds of clear drawings** to enhance student learning (Chs. 4-16).

## About the Author

James W. Hall III, Ph.D. received a Masters degree from Northwestern University and, in 1979, his Ph.D. in audiology from Baylor College of Medicine under the direction of Dr. James Jerger. Since then, he has held clinical and academic audiology positions at the University of Pennsylvania School of Medicine, University of Texas School of Medicine-Houston, and the School of Medicine at Vanderbilt University. Dr. Hall is now Clinical Professor and Chief of Audiology in the Department of Communicative Disorders at the University of Florida in Gainesville. In addition to his administrative duties, he maintains a clinical practice at University of Florida Health Science Center, and serves as a clinical instructor and mentor in the Doctor of Audiology on-site and distance learning programs.

Dr. Hall's main research interests are in the area of auditory neurophysiology, clinical assessment of auditory processing disorders and central auditory nervous system function, newborn hearing screening, and tinnitus & hyperacusis. Dr. Hall lectures internationally on these topics. He is the author of numerous journal articles, monographs, or book chapters, as well as the *Handbook of Auditory Evoked Responses* and *Audiologists' Desk Reference Volumes I and II*, the *Handbook of Otoacoustic Emissions* and the *New Handbook of Auditory Evoked Responses*.

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