



Introduction to the Physiology of Hearing

By James O. Pickles

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This book deals with the way that the auditory system processes acoustic signals.

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Editorial Review

Review

Pickles (biomedical sciences, U. of Queensland, Australia) presents a textbook for undergraduate students and for medical professionals in other specialties besides audiology. There are multiple entry points for readers with different levels of background, and the treatment is non-mathematical except for a few elementary algebraic equations. The topics include the physics and analysis of sound, the auditory nerve, mechanism of transduction and excitation in the cochlea, the auditory cortex, and sensorineural hearing loss. Previous editions were published between 1982 and 2008; this one incorporates recent developments in the science and devotes more attention to clinical aspects. Distributed in North America by Turpin Distribution.

--Book News Inc. Portland, OR

About the Author

James Pickles is the Head of the Hearing Unit, University of Queensland, Brisbane. He was previously Reader in Auditory Physiology in the Department of Physiology at the University of Birmingham, UK, and moved to the Vision, Touch and Hearing Research Centre in 1989. He has been financed by a Garnett Passe and Rodney Williams Memorial Foundation Senior Research Fellowship. Before that, he was an Australian Senior Research Fellow of the Australian Research Council.

Dr James Pickles' research concentrates on the function, development, regeneration, and pathology of the hair cells of the cochlea. The work is a development of the discovery of 'tip links', fine macromolecular strands that interconnect the tips of the mechanosensitive hairs or stereocilia on the cells, enabling the cells to detect sound.

Users Review

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