An Introduction to the Psychology of Hearing, Sixth Edition

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Synopsis

Now available in a sixth edition, An Introduction to the Psychology of Hearing is the leading textbook in the field of auditory perception, also known as psychoacoustics.

The textbook’s longevity and loyal readership can be attributed to the accessible manner in which it describes the relationships between the characteristics of the sounds that enter the ear and the sensations that they produce. Wherever possible, the author has specified these relationships in terms of the underlying mechanisms. The intention is to impart an understanding of what the auditory system does and how it works: research results are not just described, but are interpreted and evaluated; knowledge is not assumed, but deduced from basic principles.

Author

Brian C.J. Moore is Professor of Auditory Perception at the University of Cambridge and leader of the Auditory Perception Group at the Institution.

Moore received his BA in Natural Sciences in 1968 and his PhD in Psychoacoustics in 1971, both from the University of Cambridge, UK. He is a Fellow of the Academy of Medical Sciences and a Fellow of the Royal Society.

Topics covered include

- the physics of sound
- the physiology of the auditory system
- frequency selectivity and masking
- loudness perception
- temporal analysis
- pitch perception
- sound localization
- timbre perception
- the perceptual organization of complex auditory “scenes”
- speech perception
- practical applications, such as hearing aids, cochlear implants, and high-fidelity sound reproduction.

What’s new?

The new edition of An Introduction to the Psychology of Hearing has been thoroughly updated. New sections have been added, covering perceptual methods of estimating basilar-membrane compression, informational masking of non-speech and speech sounds, experiments and theories concerning pitch perception, and the perception of speech in complex auditory environments.

Readers

The textbook is designed for advanced undergraduate and graduate level courses in psychology, speech and hearing sciences, and audiology. It will appeal to researchers and professionals involved in sound and hearing, such as audio engineers, otologists, hearing-aid designers, audiologists, and hearing-aid dispensers.

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