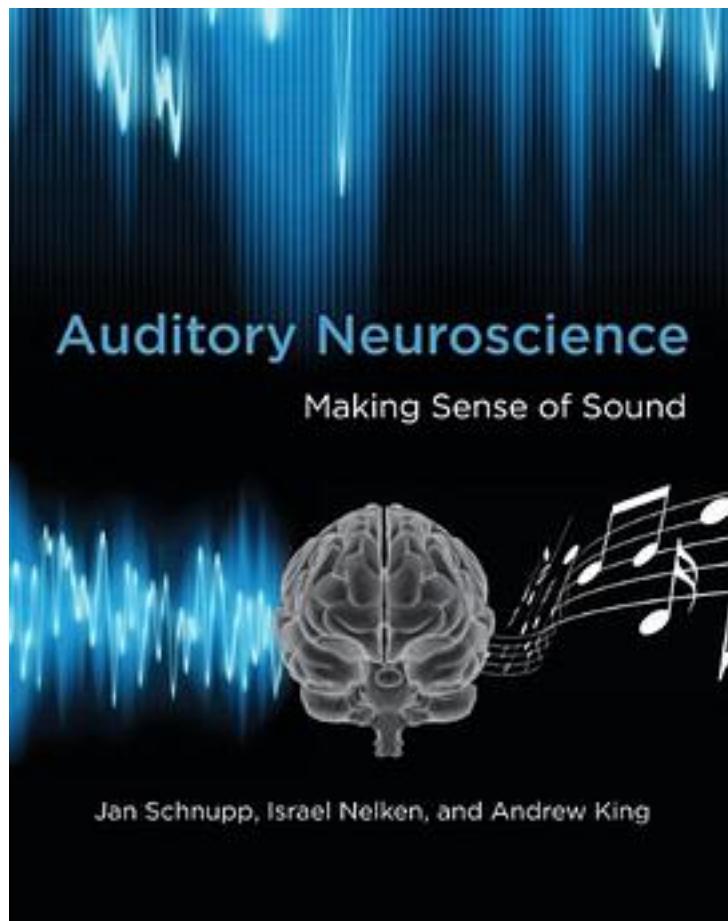


Auditory Neuroscience



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Every time we listen--to speech, to music, to footsteps approaching or retreating--our auditory perception is the result of a long chain of diverse and intricate processes that unfold within the source of the sound itself, in the air, in our ears, and, most of all, in our brains. Hearing is an "everyday miracle" that, despite its staggering complexity,

seems effortless. This book offers an integrated account of hearing in terms of the neural processes that take place in different parts of the auditory system. Because hearing results from the interplay of so many physical, biological, and psychological processes, the book pulls together the different aspects of hearing--including acoustics, the mathematics of signal processing, the physiology of the ear and central auditory pathways, psychoacoustics, speech, and music--into a coherent whole.

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标签

神经科学

听觉

语音

实验语音学

phonetics

neuro

must

Mind

评论

前言说，希望这本书能把生理学、心理声学、信号处理和语音学综合起来。因此，这本书涉及的知识还是挺广的。前面几章关于音高和语音感知挺有意思，后面关于听觉定位和场景分析的内容不太懂。印象最深的是，书里说某些“高级”的听觉认知活动其实能用“低级”的听觉过程来解释。

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