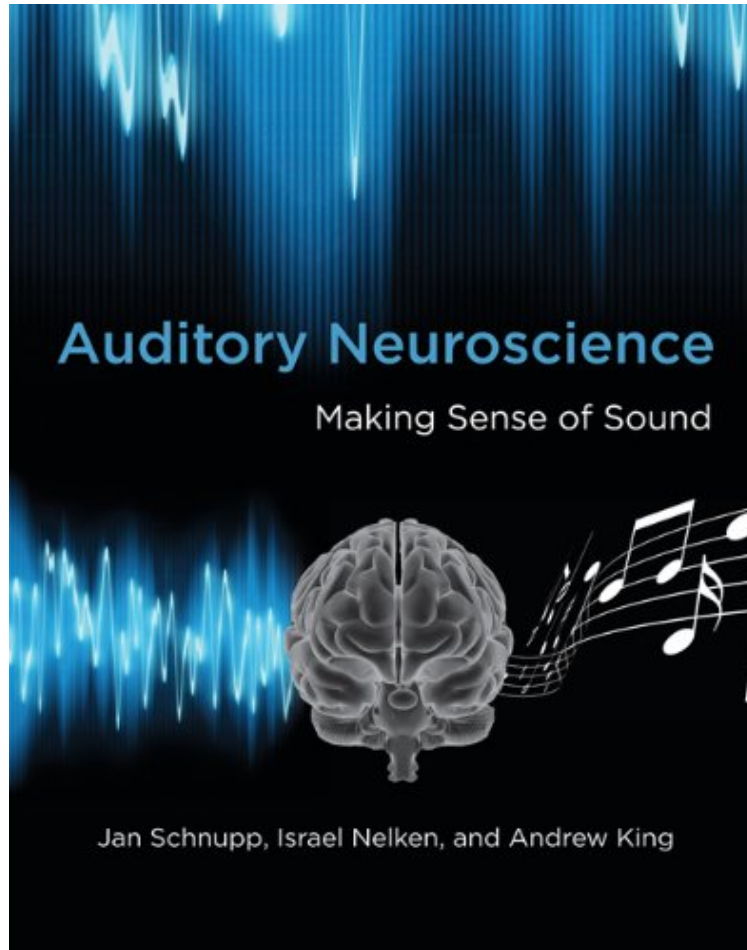


(Mobile book) Auditory Neuroscience: Making Sense of Sound (MIT Press)

Auditory Neuroscience: Making Sense of Sound (MIT Press)

Jan Schnupp, Israel Nelken, Andrew J. King
audiobook | *ebooks | Download PDF | ePub | DOC



 Download

 Read Online

#266799 in Books The MIT Press 2012-08-17 Original language: English PDF # 1 9.00 x .63 x 7.00l, 1.29
#File Name: 0262518023366 pages | File size: 77.Mb

Jan Schnupp, Israel Nelken, Andrew J. King : Auditory Neuroscience: Making Sense of Sound (MIT Press)

before purchasing it in order to gauge whether or not it would be worth my time, and all praised Auditory Neuroscience: Making Sense of Sound (MIT Press):

0 of 0 people found the following review helpful. text is the best modern treatment I have yet come across By John Gale This M.I.T. text is the best modern treatment I have yet come across. Our hearing and interpretation of auditory input is a complex one, to say the least. Yet here we have a patient, well-illustrated and lucid account backed up by excellent notes and references. I have found it a particularly useful source for my lectures at the Sydney Conservatorium. 2 of 2 people found the following review helpful. Deep but clear By dmaleod@ucsd.edu This is not just a good book about hearing, it is one of the best textbooks I have come across on any subject. It goes far beyond the standard textbook treatment by introducing key recent advances wherever those affect the fundamentals of the story. Quite a few fairly difficult ideas are involved, and the book's depth and compression could make it hard going for nonspecialist undergraduates. But it does repay effort. 1 of 1 people found the following review helpful. A very

good text
By Marilee
This is a well thought out text book with a lot of good analogies and examples. It really does start from the basics, so it does not assume much background knowledge, but quickly builds to the meat of the topic. Illustrations are helpful.

An integrated overview of hearing and the interplay of physical, biological, and psychological processes underlying it. 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.

This excellent book is valuable in providing a detailed view of auditory neuroscience. (Joseph Lehmann Pragmatics and Cognition)
This book is unique in its elegant unification of a broad view of the fundamentals of hearing with a highly sophisticated account of the current state of auditory neuroscience. Each chapter is a self-contained, coherent, and comprehensive account of a major attribute or function of hearing that takes the reader through an exciting journey of discovery, beginning with basic definitions and ending with a balanced critique of the diverse opinions and ideas that are typical of a lively field of investigation. In such a scientific endeavor, this book is a valuable guide for the novice and the expert alike. (Shihab Shamma, Professor of Electrical Engineering, University of Maryland, College Park)
From the Author
Hearing is the telepathic sense that we take for granted. Think about it: you might be sitting somewhere quietly when suddenly some fantastically small ripples of air pressure wiggle your ear drums by just fractions of a micrometer, and within a fraction of a second your brain will have deduced from those pressure ripples that someone on the table next to you has dropped a spoon, or that a phone is ringing, or a dog is barking. Or you might be rapt in conversation, listening to a friend's latest exploits. When you do that, you are effectively reconstructing your friend's thoughts and emotions from the train of invisible vibrations that emanate from your friend's vocal apparatus. It's nothing if not miraculous. In this book, we try to explain how this all works. We are aiming mostly at an audience of undergraduate students in the biomedical sciences, psychology, audiology or biomedical engineering, but the book ought to be accessible to many interested laymen too. We have also put together a website to accompany the book with accompanying multimedia content at auditoryneuroscience.com. Take a look. If you like it, tell your friends - if not, tell us.