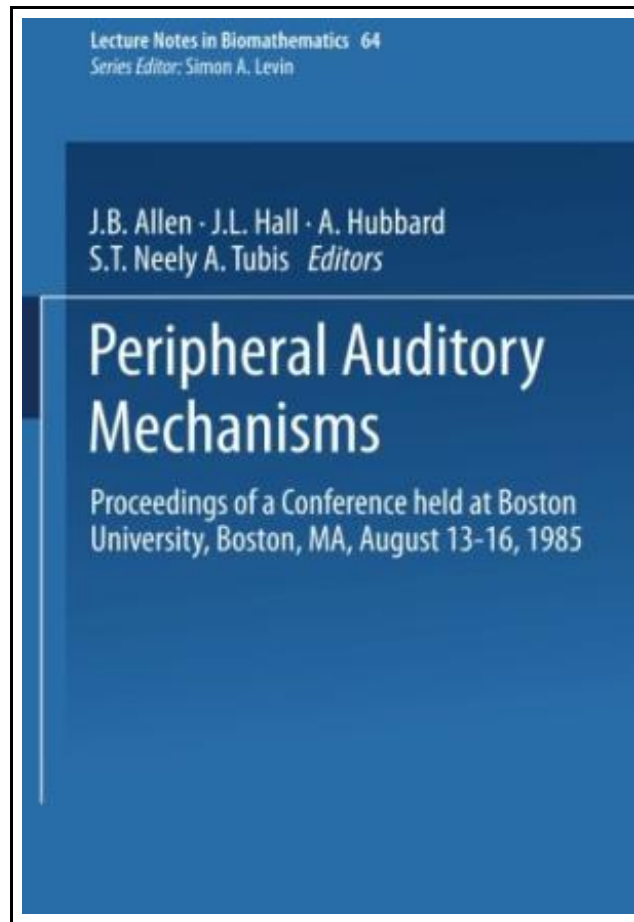


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Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of a conference held at Boston University, Boston, MA, August 13-16, 1985 | How well can we model experimental observations of the peripheral auditory system? What theoretical predictions can we make that might be tested? It was with these questions in mind that we organized the 1985 Mechanics of Hearing Workshop, to bring together auditory researchers to compare models with experimental observations. The workshop forum was inspired by the very successful 1983 Mechanics of Hearing Workshop in Delft [1]. Boston University was chosen as the site of our meeting because of the Boston area's role as a center for hearing research in this country. We made a special effort at this meeting to attract students from around the world, because without students this field will not progress. Financial support for the workshop was provided in part by grant BNS- 8412878 from the National Science Foundation. Modeling is a traditional strategy in science and plays an important role in the scientific method. Models are the bridge between theory and experiment. They test the assumptions made in experimental designs. They are built on experimental results, and they may be used to test hypotheses and predict experimental results. The latter is the scientific method at its best. Cochlear function is very complicated. For this reason, models play an important role. One goal of modeling is to gain understanding, but the necessary mathematical tools are often formidably complex. An example of this is found in cochlear macromechanics. | Outer and Middle Ear Mechanics.- The effectiveness of external and middle ears in coupling acoustic power into the cochlea.- Spatial distribution of sound pressure in the ear canal.- The impulse response vibration of the human ear drum.- Formulation and analysis of a dynamic fiber composite continuum model...

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