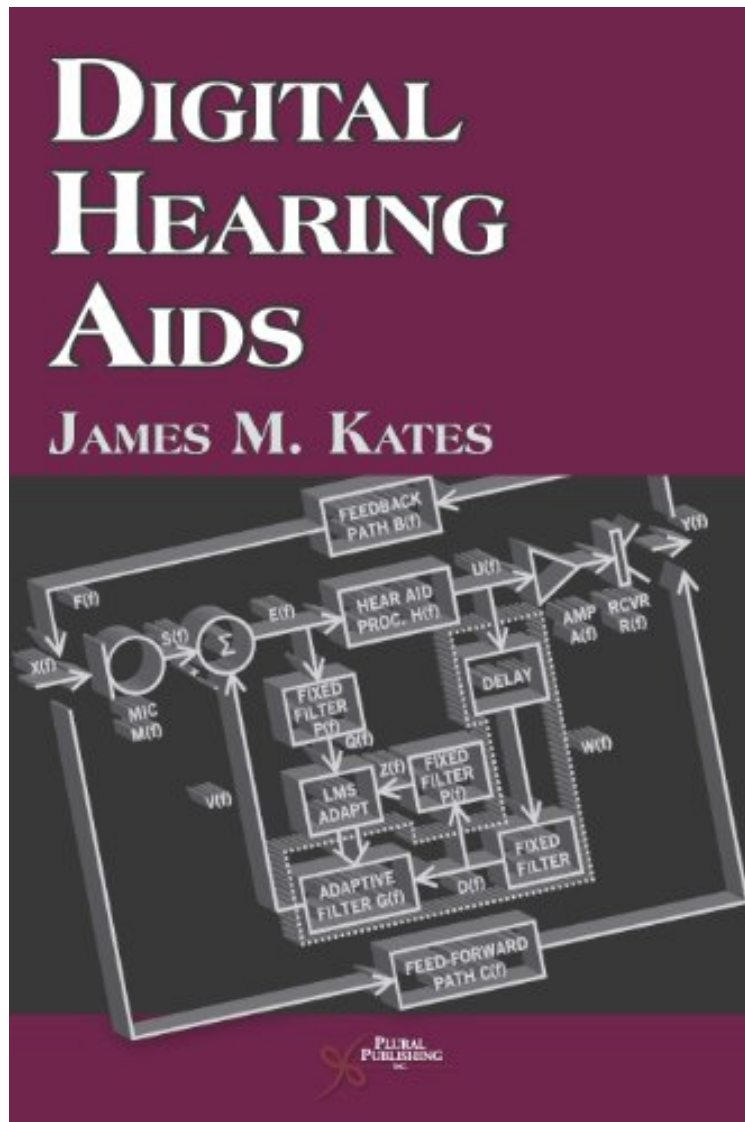


[Read free] Digital Hearing Aids

Digital Hearing Aids

James M. Kates

**Download PDF / ePub / DOC / audiobook / ebooks*



[Download](#)

[Read Online](#)

#2370321 in Books Plural Publishing 2008-03-31 Original language: English PDF # 1 9.30 x .90 x 5.90l, 1.40
#File Name: 159756317X464 pages | File size: 33.Mb

James M. Kates : Digital Hearing Aids before purchasing it in order to gage whether or not it would be worth my time, and all praised Digital Hearing Aids:

0 of 0 people found the following review helpful. An interesting case study in applied mathematics; engineering and physics! By Deep Roy I got a job with Starkey Hearing Technologies so I bought this book. Since a better job popped up, I decided to leave Starkey but, that said, I remain thankful that James Kates decided to write this book because it let me pull together a lot of the mathematics and signal processing that I learned at college but never applied. So that's

what I like about this book: it was a good case study in applied mathematics; engineering and physics! For that alone, I recommend the book to anyone who is looking for something like that.

The first book available on the subject, *Digital Hearing Aids* provides an overview of the signal-processing strategies implemented in modern digital hearing aids. Algorithms ranging from dynamic-range compression and directional microphones to sound classification and binaural noise suppression are clearly explained. The basic equations describing the signal-processing algorithms are presented along with full explanations for those less comfortable with the mathematics, and each processing strategy is accompanied by a summary of its effectiveness. The text is intended for a graduate audiology course in hearing aids and hearing-aid technology.

H. Martin, *Journal of Laryngology and Otology*, (2009): "I was a little daunted when I flicked thought the book, due to the many mathematical equations and circuit diagrams ... However, I need not have worried, as the book is very well written and it is possible to follow the explanations without fully appreciating the details of the equations. ... An excellent reference resource for those involved in selecting and programming hearing aids and counselling users in the limitations of their aids." Denise Hoysack, AuD, CCC-A, *Otology Neurotology*, (2010): "The author does a good job of explaining the complexities involved, the capabilities, and constraints of signal processing. Additionally, the book is littered with mathematical equations, graphs, charts, and figures to ease the difficulties of understanding the concepts discussed." Ron Brouillette, PhD, Advisory Group on the Prevention of Hearing Impairments, (2009): "... The text is easily understood and complete with specifics useful to those who desire to stay current with digital hearing aids technology." About the Author James M. Kates, E.E. holds the position of Research Fellow with hearing-aid manufacturer GN ReSound. He is also an Adjunct Professor in the Department of Speech Language and Hearing Sciences at University of Colorado in Boulder. Prior to moving to Colorado, he was Research Scientist in the laboratory of Harry Levitt at the City University of New York. He received the BSEE and MSEE degrees from the Massachusetts Institute of Technology in 1971, and the professional degree of Electrical Engineer from M.I.T.