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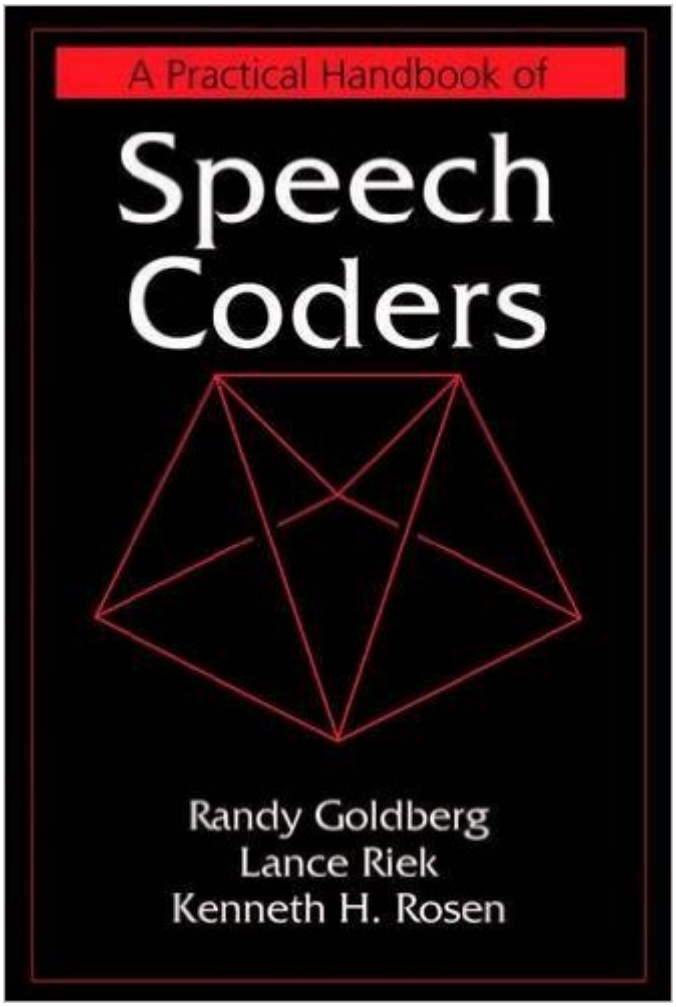
A Practical Handbook Of Speech Coders (Discrete Mathematics And Its Applications)



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Synopsis

The demand for digital speech coding algorithms grows every day, fueled by applications such as streaming speech over the Internet, Internet telephone, digital cellular telephony, wireless teleconferencing, and various multimedia applications. Until now, most of the books available on audio coding have been collections of individually authored papers. Others have discussed the fundamental coders, but neglected many of the innovations currently in use. Unlike these books, A Practical Handbook of Speech Coders offers in-depth treatment of the basics of speech coding plus the innovations to the basic methods that make the coders useful and efficient.The authors designed this work for engineers, scientists, and manager who need to understand the emerging speech coding techniques and telecommunication standards. However, it will prove useful to people at all levels of speech coder experience:If you want to simply download the code for an existing algorithm, this book helps you evaluate the strengths and weaknesses of all publicly available codes and choose the right one, then points you to the Internet location where the code is available for download. For experts who want to improve on existing coders, this book provides the parameters of current coders and the techniques to improve upon them. You can download an existing algorithm or code it using the algorithmic descriptions in the book, make your innovations, and then test the code with the procedures given.If you want to become an expert and have some basic knowledge of digital signal processing, you can learn the innovative steps taken by the inventor of each coder, explore the rigorous research techniques needed to develop your own coder, and become proficient in existing vocoder technology.

Book Information

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Customer Reviews

Very brief discussion of some aspects of speech coding. Perhaps useful for marketing or business people to learn some terminology; but definitely not sophisticated enough for the technical crowd. The authors include topic like psychoacoustic, which is clearly not a dominant part of today's speech coding techniques, but yet make a whole chapter about it, waste of space and time...

The authors gathered some trends and superficial informations from the literature and put them in the form of a "book". It's not worth reading for the serious folks since there is no detail about anything. Web sites and internet addresses provided to find the source code are either disfunctional or obvious, a search session at Yahoo! is much more productive.

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