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Develops the theory and implementation of BWE applied to low-frequency sound reproduction, perceptually coded audio, speech and noise abatement; Includes a BWE patent overview; Audio Bandwidth Extension pulls together recent developments in to a single volume and presents a coherent framework to the reader. Such an approach will have instant appeal to engineers, specialists, researchers and postgraduate students in the fields of audio, signal processing and speech.

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Corpus ID: 107911089. Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design. @inproceedings{Larsen2004AudioBE, title={Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design}, author={Erik Larsen and Ronaldus Maria Aarts}, year={2004}} Erik Larsen, Ronaldus Maria Aarts.

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Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design | Wiley. Bandwidth extension (BWE) refers to various methods that increase either the perceived or real frequency spectrum (bandwidth) of audio signals. Such frequency extension is desirable if at some point the frequency content of the audio signal has been reduced, as can happen for example during recording, transmission or reproduction.

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Larsen (speech and hearing bioscience and technology, Massachusetts Institute of Technology) and Aarts, a researcher in the private sector in The Netherlands, examine applications of bandwidth extension (BWE) to music and speech, placing special emphasis on signal processing techniques.

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Bandwidth extension of signal is defined as the deliberate process of expanding the frequency range of a signal in which it contains an appreciable and useful content, and/or the frequency range in which its effects are such. Its significant advancement in recent years has led to the technology being adopted commercially in several areas

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