

Room Equalization Based On Iterative Simple Complex

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based on measured loudspeaker/room impulse responses combined with room and psychoacoustic knowledge. Frequency-dependent smoothing and nonlinear equalization effort were applied; and a new iterative method based on both time and frequency domain criteria ... AES E-Library » Design and Evaluation of Digital Filters ... The control of excessively long decays in a listening room with strong low-frequency modes is problematic, expensive, and sometimes impossible with conventional passive means. A systematic methodology is presented to design active modal equalization able to selectively reduce the mode decay rate of a loudspeaker-room system at low frequencies in the vicinity of a sound engineer's listening ... AES E-Library » Modal Equalization of Loudspeaker - Room ... In this paper an equalization technique for colour images is introduced. The method is based on n th root and n th power equalization approach but with optimization of the mean of the image in different colour channels such as RGB and HSI. The performance of the proposed method has been measured by the means of peak signal to noise ratio. The proposed algorithm has been compared with ... HSI based colour image equalization using iterative n th ... Iterative Equalization With Decision Feedback Based on Expectation Propagation Abstract: ... The proposed scheme can also be self-iterated, as done in the recent trend on EP-based equalizers, and it is shown to be an attractive alternative to linear self-iterated receivers. For time-varying (TV) filter equalizers, an efficient matrix inversion ... Iterative Equalization With Decision Feedback Based on ... Design of inverse filters is based

on measured loudspeaker/room impulse responses combined with room- and psychoacoustic knowledge. Frequency dependent smoothing and nonlinear equalization effort is applied, and a new iterative method has been proposed. Index Terms— Deconvolution, MIMO, FIR, IIR, Kautz and Wrapped filter

REVIEW OF LOUDSPEAKER EQUALIZATION An alternative approach to the minimum-phase/all-pass decomposition based on iterative flattening of the room transfer function (RTF) magnitude is also presented, which overcomes potential numerical problems and provides more insight into subjective aspects of magnitude and phase equalization in the reduction of acoustic reverberation. Nonminimum-phase equalization and its subjective ...

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Energy-Spreading-Transform Based MIMO Systems: Iterative ... The development of a mixed-phase equalizer is still an open problem in the field of room response equalization. In this context, a multipoint mixed-phased impulse response equalization system is presented taking into consideration a magnitude equalization procedure based on a time-frequency segmentation of the impulse responses and a phase equalization technique based on the group delay analysis.

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