

Title (en)

A method of processing a plural channel audio signal

Title (de)

Verfahren zur Mehrkanal-Tonsignalverarbeitung

Title (fr)

Procedé de traitement d'un signal audio à plusieurs canaux

Publication

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Application

EP 99305562 A 19990712

Priority

GB 9816059 A 19980724

Abstract (en)

A method of processing a plural channel audio signal representing a three dimensional sound-field for generation by respective left and right loudspeakers arranged at a given distance from a listener, including:- a) choosing a distance between said loudspeakers and said listener; b) determining from this chosen distance an optimal amount of transaural crosstalk compensation, the optimal amount being a function of the chosen distance; and c) applying said optimal amount of crosstalk compensation to said left and right channels. The optimal transaural crosstalk cancellation is preferably achieved using a near ear response transfer function and a far ear response transfer function which asymptotically approach different values at low frequencies. The method may further include choosing an angle between the left channel loudspeaker and the right channel loudspeaker, and determining from both the chosen angle and the chosen distance an optimal amount of transaural crosstalk compensation. <IMAGE>

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