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Subject: Re: Chapter on perception

Posted by [Earl Geddes](#) on Sun, 19 Feb 2006 02:29:11 GMT

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No, I'm saying that all the current evidence points to there not being perceptable nonlinearity in loudspeakers. Its just not an issue. Read our latest paper in Dec AES for a test which showed that the nonlinear distortion in a high performance compression driver was inaudible even up to its thermal limit (about 124 dB in a PWT).Most other studies by us (see AES convention Oct 2003) and Dr. Moore (see AES Nov. 2005) are pointing to the same thing.Of course clipping is audible but thats just plan misuse and doesn't count. As long as loudspeakers are not misused nonlinear distortion appears to be irrelavent.Now we do hear "stuff" at higher SPL's thats clear, but its not nonlinear distortion. Its a nonlinear perception in our hearing system that we interpret as nonlinear distortion.

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