Subject: Re: What measurements matter to audibility?
Posted by robertG on Mon, 19 Dec 2005 22:53:39 GMT
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Floyd Toole wrote very interesting papers a while back when he was at the CNRC.He also wrote less interesting papers at the head of Harman International R&D!For one, he wrote that any half decent engineer (or hobbyist for that matter) could design a "flat" speaker. That is true. On the other hand, he also noted that flat frequency response did not matter much, unless a broad resonance was present in the system. That is also true. But how come modern-day JBL, Revel and Infinity (all Harman products) were NOT considered true audiophile stuff? In my opinion, the answer is musical coherent contrast, that is the ability for a speaker system to convey a true sense of scale by rendering both infinitely small musical detail and infinitely variable loudness in a phase and time coherent way. Call it dynamics, but coherent dynamics: all drivers equally efficient and able to respond to minute amplifier signal. I guess only full range drivers in a back horn can achieve this.For sure, I'm very partial about fullrange driven horns as I design those. But I also like to design regular BR boxes too. The overall best is horn loaded as the efficiency is very high and thus able to render both detail and loudness.Of course, I also like other types of speakers, but all things being equal, only a horn has the ability to give musical contrast. And THAT cannot be measured as acurately as a FR plot...