Subject: Idea for alternative to power tapering
Posted by Abra Cadaver on Sat, 25 Jun 2005 20:07:51 GMT
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I'm not suggesting that this will work, I'm just tossing it out as an idea. Instead of power tapering, how about making a fabric grill that has more layers of fabric on the outer drivers than the inner ones?

Subject: Re: Idea for alternative to power tapering
Posted by Eric J on Mon, 27 Jun 2005 21:03:45 GMT
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Have you seen the response curves comparing speakers with and without grills?eric j

Subject: one of the first
Posted by lcholke on Tue, 28 Jun 2005 02:30:43 GMT
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HiI saw this done in an old AES paper in the 1-25 audio anthology collection.(1962) It is still a clever idea. They used fiber glass. It must have worked for them to publish and install in a church. Their final unit was usable from 300 to 10khz with eq. The other old way is to rotate the drivers around a pole.-Linc

Subject: Re: Idea for alternative to power tapering
Posted by Earl Geddes on Mon, 18 Jul 2005 18:54:31 GMT
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As stated, this is not a new idea. Unlike constant power tapering, the absorption tapering is frequency dependent, which is an added degree of freedom to facilitate a better design.I use a similar principle in my waveguides to improve pattern control - a foam plug - and it works extremely well. It is an idea with a lot of potential, but it can be very difficult to actually design using.

Subject: Re: Idea for alternative to power tapering

Posted by lcholke on Fri, 22 Jul 2005 15:00:26 GMT
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Earl,Any thoughts on foam selection. Open cell is probably required. What materials and thickness come to mind. -Thanks-Linc

Subject: Re: Idea for alternative to power tapering
Posted by Earl Geddes on Fri, 22 Jul 2005 16:11:34 GMT
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Open cell polyurethane foam comes in an extremely wide variety of cell density and is ideal for the application. Only a model or experimentation could determine what sizes and thicknesses would be required - guessing would probably be a waste of time.