Subject: Anyone good with Speaker Workshop???
Posted by Adam on Thu, 06 Nov 2003 16:44:58 GMT
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I'm sort of limping along here on Speaker Workshop until my copy of Sound Easy 8.00 arrives in a couple of weeks. I'm trying to design a relatively simple 2-way crossover for a friend of mine based on limited information using two 4 ohm Vifa 7" drivers in series, and a North Creek D25 tweeter. I tweaked with the values a lot to try and get a reasonable frequency response. I finally settled on a 2nd order network on the tweeter using a 2.5 uF cap bypassed with an 8 ohm resistor and a 0.2 mH coil, and a simple 1 mH choke on the Vifas. I also put into place a zobel on the woofers, with a 10 uF cap and an 8 ohm resistor.The result is a frequency response that appears to be +- 2db in the 86-90 db range, with the exception of a rise above 20 kHz, which I suspect is just a weird anomoly in the program.Having said that, I really don't trust this software much and particularly in this case when it comes to having the two Vifas wired in series. I was also expecting a reference sensitivity more along the lines of 90-91 db, rather than the 88 or so I've managed to achieve. Also, the reverse phase null is a fairly deep 17db, but I'm not sure if it's deep enough to indicate a truly smooth phase transitionI just don't trust this program I guess... Maybe someone could reply here or e-mail me with some thoughts and suggestions, perhaps we could flesh things out a little more.If anyone could offer their assistance (espcially Wayne!!!) I'd greatly appreciate it.Thanks guys.Adam

Subject: Re: Anyone good with Speaker Workshop???
Posted by Wayne Parham on Fri, 07 Nov 2003 05:37:20 GMT
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Shoot me an E-Mail and I'll help you get it setup and running. The biggest thing is calibrating it with your sound card. I've found it to be very sensitive to the level settings in both record and playback channels on the sound card. It's easy to clip, and then all measurements are wrong. But once you get the levels right, it works pretty well.