
Subject: Re: Can a notch filter improve phase lag?
Posted by [roncla](#) on Thu, 01 Apr 2004 15:22:57 GMT

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Yea , i know what you mean Martin. TC and i have crossed swords several times. Just because you can sell something dosent mean its the best that can be done ie: B**e. I use the basic old math and physics in my horns ,but i have learned to design for a given set of conditions so a universal horn IMHO is not really possible. Actually one of the best i have designed and built was the Fe-103e horns that was very little more than a TQWT (conical flare) with a rapid expansion at the mouth, the mouth being designed for 1/4 loading (wall/floor). Not the most efficent but by far the cleanest bass i have made yet. Simple to build also. I actually had one guy get angry and claimed "it was some kinda trick" with the amount and clarity of the LF coming from such a weird design and with such a small (4") driver. Imaged like crazy too. ron

Subject: Re: Can a notch filter improve phase lag?
Posted by [akhilesh](#) on Thu, 01 Apr 2004 16:03:24 GMT

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HI Roncla, The project you describe sounds very interesting. Could you point us to a website that describes the project? Also, if we were to adapt the design for another similar driver, maybe you could give some pointers on how to do that. thanx!-akhilesh

Subject: Re: Can a notch filter improve phase lag?
Posted by [roncla](#) on Thu, 01 Apr 2004 16:20:35 GMT

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Well its basically my design and as i have no website (too lazy) i really cant point you in a direction. I have today sent Jim an alternative to my complicated design, i call it the hedlund in a box which is a true horn and has an exponential/hyperbolic flare around $M=0.6$. It was designed for the Fe-166e driver but i may be able to convert the basic design to the 206e. Send me an e-mail at roncla AT txucom.net and i will see what i have in my files for the 103e horn. ron