Subject: Re: Electrical filters and Acoustic Filters Posted by Martin on Mon, 19 Sep 2005 22:32:54 GMT View Forum Message <> Reply to Message

Everything you say is true. It is just the perspective which one looks at the problem that is different. I like thinking of the problem as voltage division without any change to the driver properties because it lets me visualize the next level of complexity.For example, say I have a speaker that needs 2 ohms of series resistance and a baffle step correction of 6 ohms of resistance in parallel with a 2.5 mH inductor. What is the diferences between having a 2 ohm resistor in series with the baffle step circuit in series with the driver or the other way combining the 2 ohm resistor with the 6 ohm parallel resistor to form a new baffle step circuit. This is a real world problem. Thinking of adjustments to the Qes does not help you get a feel for the results. Thinking about voltage division as a function of frequency provides the insight needed to visualize what is going on with this more complex circuit.I like thinking of the series resistor in terms of voltage division so that I understand what is going on with the speaker.

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