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Subject: Re: MiniDSP

Posted by [Wayne Parham](#) on Wed, 27 Nov 2019 21:33:10 GMT

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Digital filters are awesome because of their flexibility.

In the case of loudspeakers - and particularly controlled directivity loudspeakers - you have to be careful with your choice of filters because they affect summing through the crossover region. So steep slope filters aren't necessarily your best bet. Nor are first-order filters necessarily your best bet.

In my experience, the best filter is found using a process like I describe in the link below:

Crossover optimization for DI-matched two-way speakers

And for room modes, no electrical filter is sufficient because the most sophisticated filter can only have a two-dimensional effect, whereas room modes are a three-dimensional phenomenon. The solution for room modes is flanking subs and multisubs.

Flanking subs and multisubs

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