Subject: Re: L pad
Posted by Wayne Parham on Sat, 20 Feb 2021 19:14:25 GMT
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You can do pretty much anything with DSP. So - yes - you can correct the anomalies created by reactance with DSP. But really, if you're going to use DSP, it would be better to use it alone rather than to have any reactive components in the loudspeaker circuit.

The only thing that's a problem is some DSP tools don't allow arbitrary networks to be modeled. If you are trying to duplicate a passive crossover that uses values other than textbook Butterworth or Linkwitz-Riley, it isn't as easy as configuring for a simple slope and frequency. And to tell the truth, that's how most people use DSP. Consequently, it's how most entry-level audio DSP systems are made to be used. So that prevents the user from taking advantage of the power of DSP.

But since some DSP systems come with a sampling mechanism, they can be set to auto-correct response. Just place the measurement microphone at the listening position. That's probably the easiest way to set it all up.