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Subject: Mathematical models

Posted by [Wayne Parham](#) on Tue, 09 Apr 2002 01:26:09 GMT

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Have you used Spice? That will allow you to model the electrical circuit perfectly, and the acoustic filter functions are simple enough that they can be modeled on it if you choose to do so. Coming at it from the other direction, you can use Thiele/Small, adding any attenuation resistance you decided upon by manipulating Qes. And using David McBean's Hornresp, you can model the response of the basshorn with and without additional resistance in the woofer circuit simply by adding it to the motor's Re. So there are several ways to model the system - Some that focus mainly on the acoustic filter functions and others focusing primarily on the electrical filters. Each sort of "touches" on the other.

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