Subject: Re: Low frequency in room cancellations
Posted by Wayne Parham on Wed, 11 Sep 2002 20:30:13 GMT
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If the room is large enough that the room modes all fall below the passband, then the sound acts as a reverberent field. In that case, you would want to setup speakers for constructive reinforcement, where possible. You might want to have banks of loudspeakers, left and right perhaps, and group them so they combine constructively in the middle, over as wide a range of the listening area as possible.If the room is small enough that the Schroeder frequency is in the passband, i.e. some bass is in the modal range of the room, then you might want to distribute subs to form dense interference. The idea is to align the nodes of some subs with the anti-nodes of others. Basically, you want to average the sound field using several bass sound sources distributed around the room. Line the subs up along the stage rather than grouping them together on the left and the right.