

Models for the estimation of the loudspeaker in-room response

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SUMMARY

Low-frequency and high-frequency models for the estimation of the loudspeaker in-room response are presented. A new method of acoustical images for directional sources has been developed. The theory holds for point sources with arbitrary directional characteristics placed near reflecting perpendicular walls. Examples of frequency and impulse responses for a closed box loudspeaker, planar dipole loudspeaker and nondirectional acoustic source are presented.
