Experimental study on the ground attenuation effect by a kind of ground

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Abstract : Propagation of sound varies with ground condition. In this study, attenuation of grounds that consist concrete and grass were measured using a nondirectional speaker which generates pink or white noise. This results were compared to the theoretical results that using the ground attenuation equation of ISO 9613-2. From this, it was shown that it has a large difference of two ground conditions at closer positions from the ground and high frequencies.