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ABSTRACT

The acoustic space is composed of two types, room for speech and music. To get the desired type of room acoustics, need to meet the parameters of each type of room acoustics. The acoustic parameters is Reverberation Time, Rapid Speech Transmission Index, Listening Levels and Noise Criteria. The study was conducted by measuring the value of the room acoustic parameters, perform treatment in simulation and validation. Measurement of room acoustic parameters is done using software Yoshimasha and treatment simulation using CATT. Simulations performed include changing the absorption coefficient and diffusion, changing the way of installation and diffusor position in the room. Simulations carried out to determine the effect diffusor mounting on walls of the acoustic parameter value, the value of RT and Rasti whose value ranges between 0.57-0.66s and 63.31%, do not meet the criteria of room for speech. From the experiments, we can get the value of the room acoustic parameters after installation diffusor through a simulation of a variety of ways and position.

Keywords: Parameter Acoustic, Simulation, diffusor