

--	--

	FE model for loosely-supported setup of impedance tube measurement
	Journal of Technology and Social Science, Vol.6, No.2, pp.20-26, 2022.
	黒沢良夫
	<p>In impedance tube measurement, the sound absorption coefficient measurement result may change due to contact between the sample and the tube wall. Loosely-supported setup has been developed in which the sample does not contact the tube wall. However, there is a gap between sample and tube wall. Also, diameter of sample is larger than inner diameter of tube. Therefore, the effect of the gap between the sample and the tube wall and the sample diameter was calculated using a finite element model. In this paper, I report the calculation results of fiber material (glass wool) using Johnson Champoux Allard (JCA) model and urethane foam using Biot-Allard model.</p>