

Simulation and Experimental Study of Vibration Characteristics of Thai Traditional Brass Gong

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In this study, the vibration characteristics of Thai traditional brass gong were numerically investigated based on finite element method (FEM) in three dimensions. We presented a methodology, boundary conditions and other parameters, which are important to be set. Preliminary results of simulation show set of natural frequencies and the corresponding mode shapes that were compared with the experimental results. It was found that both results are in good agreement. The most useful impact of this study is a simplified model in laboratory for helping to understand concept of physics and mechanical vibration.

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