

Let's get to know about the “Silent Material”!

Vibrations are often undesirable since they generate noise and can also lead to cyclic fatigue damage. Recently, considerable attention has been given to damping materials. In this course, we will select several materials, such as pure metals and shape memory alloys, to test their damping capacities. The materials are collided with a steel ball, and the decay of the sound will be monitored to analyze the damping properties. This year, the current course, including the the above-mentioned experiments, is going to be delivered online.

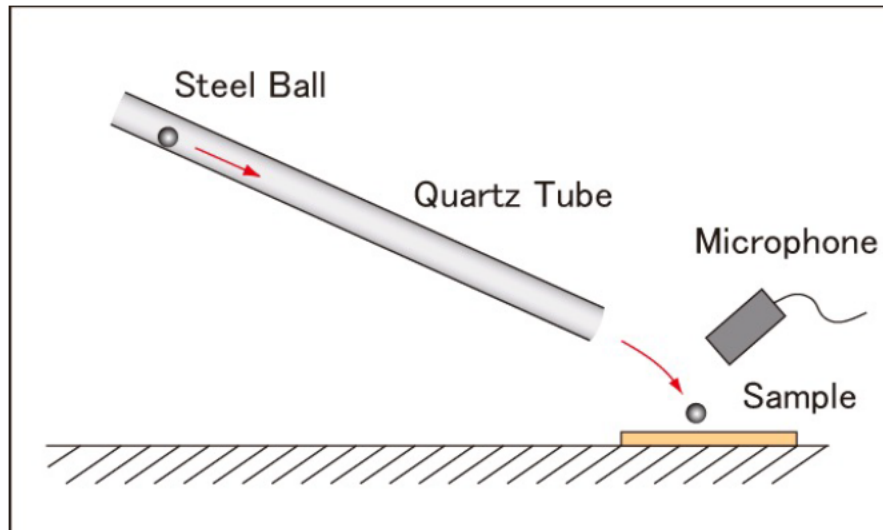


Fig. 1 Test method for measurement of damping capacity.

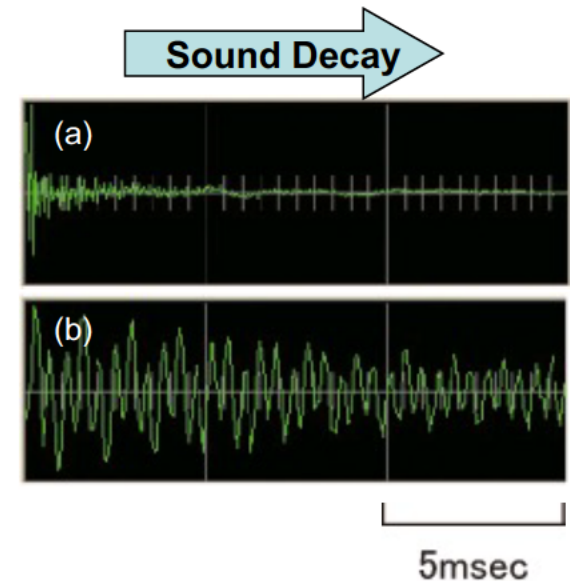


Fig. 2 Decay of sound in (a) Cu-Al-Mn shape memory alloy and (b) stainless steel.