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A Study on Correlation between Impact Pressure and Impact Sound Generated by Water Drops -Investigation of Effect of Plate Size-

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Summary: The impact force due to waves acts on the marine structures and sometimes gives a serious damage to the structures. The monitoring system for the wave impact forces will be required to achieve the structural safety. When the wave impact force acts on the structures, the sound generates at the same time. If there is any correlation between the impact force and sound pressure, it is considered that the measurement of sound may be used as the monitoring system of the wave impact forces. In this paper, we present the experimental results to make clear the correlation between impact pressure and generated sound when dropping water hits the flat plate as the first stage.

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