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Effects of sway motion on roll reduction performance of an Anti-Rolling Tank

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Summary: Effects of sway motion on roll reduction performance of a U-tube-type anti-rolling tank are experimentally investigated. Forced rolling and swaying tests of an anti-rolling tank model show that the water in the tank violently moves in different frequencies in roll and sway modes, respectively. A forced motion test in roll and sway coupling mode of the anti-rolling tank model demonstrates that sway motion significantly affects on its roll reduction performance. In larger frequency region, sway motion reduces the roll damping generated by an anti-rolling tank, and in smaller frequency region, sway motion increases it.

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