

Abstract Submitted  
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**Sloshing in Suspended Containers** P.D. WEIDMAN, University of Colorado — Cooker (*Wave Motion*, **20**, 1994) reported original work on the interactive dynamics between a fluid partially filling a single-compartment container suspended as a bifilar pendulum to determine the frequency of small amplitude motion of the system. Weidman (*Bull. APS*, **39**, 1994) extended the results of Cooker to include, *inter alia*, multi-compartment rectangular containers and a cylindrical container. Fundamental mode frequency measurements of the suspended system are presented here for fluids partially filling single- and multiple-compartment rectangular containers and a cylindrical container. The results confirm the validity of the shallow-water approach over a range of fluid/container mass ratios  $M$  and pendulum lengths  $l$  varying from 0.5 m to 3.5 m. The frequency approach to unconstrained container motion in the limit  $l \rightarrow \infty$  is also evident.

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