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**Small oscillations of capillary fluid in tank with perforated bafflers.** (Ukrainian. English summary) [Zbl 1324.76007](#)

Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh. 1133, No. 70, 36-47 (2014).

Summary: Small oscillations of capillary fluid in a tank partitioned by perforated bafflers are investigated. The mathematical formulation of the problem with the averaged boundary conditions on perforated sections of the bafflers is performed. The results of the study of evolution and spectral problems are presented.

**MSC:**

**76B15** Water waves, gravity waves; dispersion and scattering, nonlinear interaction

**Keywords:**

capillary fluid; perforated bafflers; small oscillations; eigenfrequency