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**Natural sloshing frequencies and modes in an upright circular container with poles.** (English)

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Summary: Natural sloshing modes are approximated, semi-analytically, for an upright circular cylindrical tank equipped with an array of vertical poles (pipes) as it happens, e.g., in shafts of ocean platforms.

**MSC:**

**76B10** Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing

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

**Keywords:**

ocean platform; circular cylindrical tank; sloshing