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Asymptotic theory of linear water waves in a domain with nonuniform bottom with rapidly oscillating sections. (English) Zbl 1359.76057

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Summary: A linear problem for propagation of gravity waves in the basin having the bottom of a form of a smooth background with added rapid oscillations is considered. The formulas derived below are asymptotic ones; they are quite formal, and we do not discuss the problem concerning their uniformness with respect to these parameters.

MSC:

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

Cited in 4 Documents

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