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Establishment of waves generated by a pulsating source in a finite-depth fluid. (English. Russian original) [Zbl 1407.76017](#)

Fluid Dyn. 53, No. 4, 461-470 (2018); translation from *Izv. Ross. Akad. Nauk, Mekh. Zhidk. Gaza* 2018, No. 4, 12-22 (2018).

Summary: A correct solution of Sretenskii's plane problem of a source pulsating in a finite-depth fluid is derived. The solution is found using generalized functions as a limit as the time goes to infinity of a wave regime generated by a source which starts to execute pulsations in a fluid initially at rest at a certain moment of time.

MSC:

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

Cited in **3** Documents

Keywords:

establishment of surface waves; pulsating source; fluid layer of finite depth; generalized functions

Full Text: [DOI](#)

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