

Generalization of the fundamental equation of the reservoir

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In paper (Vâscu V., Gavrilaş G, Chiorescu E., 2001) a differential equation is derived and solved analytically, under certain simplifying assumptions, as the authors called the fundamental equation of the pool, which is a zero-order model for the dispersion of soluble pollutants in a water body. In this article, a generalized mathematical model is developed and solved numerically using a computer program, by giving up some of those restrictive conditions and playing through a system of two differential equations.