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A NEW SOLUTION FOR THE OXYGENATION OF STATIONARY WATERS

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Abstract

For a more efficient oxygenation of free surface stationary waters, the air bubble emitted by a fine bubble generator must describe a trajectory which should be as long as possible. This purpose can be achieved by moving the fine bubble generator through water. In the paper there are determined the equations of motions and trajectory of the air bubble in stationary (still) waters. The paper aims to establish the equation of such a trajectory and the manner in which the speed of the moving generator influences the trajectory of the air bubble displacing itself through water. Using a mobile fine bubble generator we obtained a better water oxygenation.

Key words: displacement of air bubbles through water, fine bubble generators, water oxygenation

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