



Mathematical modelling of swimming-pool chlorination



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The Swimming pools have chlorine (or sometimes ozone) added to them to prevent the build-up of organic pollutants from bathers. But what happens if the additives are not pumped around quickly enough or too many bathers enter the pool at once? In this presentation, we will build a simple mathematical model of this process and show how to calculate the critical parameters of the problem. The modelling involves nonlinear ordinary equations and the results are of interest to swimming pool pump manufacturers and to anyone who goes swimming!

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