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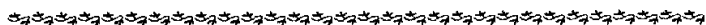
## Effect of hydraulic condition on flocculation

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**Abstract:** The theoretical analysis and the test results show that the factor of  $Gt$  (velocity gradient and time) doesn't reflect comprehensively the influence of hydraulic condition on flocculation effect in the definite condition of the waste water nature, the sort of coagulant and its amount. The main characteristic physical variables of flocculation process are analyzed theoretically in this paper. The interrelationship between the variables is illustrated by a function of dimensionless groupings as below:  $\eta = f(d/l, Re, \rho_s/\rho_w, C_0, Gt)$ .

**Key words:** water flocculation; flocculation test; dimensionless number; functional equations



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