

The control of pH neutralization process considering mixing time

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The control of pH neutralization process is very important in chemical industries and biochemical industries. It is known to be difficult to control due to its high nonlinearity that is represented with titration curve and time-varying characteristics. These problems cause many difficulties in controlling the pH process with the PID controller. So, there are many modeling and control research of pH process in steady-state. In industry, those are not proper because mixing time should be considered in the large scale reactor. In this study, we propose more effective the controller which can control the pH neutralization process considering mixing time.