

## Super-heated Steam Temperature Control for a 1000MW Thermal Power Plant

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In thermal power plant, superheated steam temperature control is important due to plant lifetime, efficiency, and stability of power plant. Conventional controller for superheated steam temperature is cascade PID controller. In this study, we developed feedforward controller in addition to conventional controller. We analyzed experimental data from field-test and found two disturbances which have dominant effect to our control target variable. To predict disturbances and control target, we built models for feedforward controllers within reliable scope. The controller was simulated and tested for performance by our simulator. This simulator was verified by experimental data from field-test.