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The objective of the lab is to implement a relay auto-tuner to find out the PID controller gain parameters. Implementation of the relay controller makes life easier than finding the critical gain values mentioned in the aforementioned excerpt. In this case, the amplitude of the relay auto-tuner is tuned until the system becomes marginally stable or oscillations centered at zero.

[A PID Controller Design by Relay Auto-tuning](#)

Auto-tuning is obviously an attractive feature as it relieves plant operators of manual tuning duties, and has been present in commercial PID controllers since the early 1980's. The auto-tuning method using relay feedback, which is the kind of technique used in the book, can be classi"ed as a model-based method, and was "rst introduced by Astrom and Hagglund (1984).

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This section is concerned with the relay autotuning method for setting the parameters of a fixed form controller, usually a PID controller. It is first explained how the method is an extension of a concept first discussed by Ziegler and Nichols for setting PID controller parameters based on an estimate of the gain margin, or process critical point.

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PID controllers are most widely used automatic industrial controllers. In process industries, most of the control loops (typically 90-95 percent) are of PID type. These controllers receive inputs from sensors, meters, etc. and depending on PID control function they deliver output control signals to the controlled or manipulating devices such as relays, actuators, etc.

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Autotuning of PID Controllers: A Relay Feedback Approach ... Autotuning of PID Controllers is more than just a monograph, it is an independent learning tool applicable to the work of academic control engineers and of their counterparts in industry looking for more effective process control and automation.

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The PID relay auto-tuner of Astrom – Hagglund is one of the simplest and most robust auto-tuning techniques for process controllers and has been successfully applied to industry for more than 15 years. This tuner is based on an approximate estimation of the critical point on the process frequency response from relay oscillations.

[Relay feedback auto-tuning of process controllers - a ...](#)

The entire procedure of inserting the relay, providing a slight incentive for the system to oscillate, the amplitude and period measurement, and the subsequent computation of controller tuning constants can be reliably automated. Indeed commercial PID controllers such as the ECA series from ABB offer relay based auto-tuning as an option.

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