

## **A REVIEW OF ANTI-WINDUP, BUMPLESS AND CONDITIONED TRANSFER**

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**Abstract:** A simple review of anti-windup, bumpless and conditioned transfer techniques is given in the framework of the PID controller. It will be shown that the most suitable anti-windup strategy for usual applications is the conditioning technique. The new notion of conditioned transfer is also introduced, and it will be indicated that conditioned transfer is a more suitable solution than bumpless transfer.

**Key Words:** Saturation, anti-windup, PID control, non-linear systems.