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PROJECT MEMO

MEMO CONCERNS

Discrete controller implementation and modelling

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Summary:

A micro controller can only handle discrete values. That means the transfer function or differential function of the control loop must be transformed into discrete forms.

This can be done in several ways. One possibility is the approach over the difference equation out of differential equation. This memo focuses on this starting point.

These algorithms are integrated in modelling to model close to the reality. Therefore, the sampling effect (especially the sampling point) must be reconsidered. The time difference between model and reality is discussed in this memo, too.

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