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Reviews

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2. 4. 1. 2. Coupled Successive Loop Closures Structure The coupled SLC structure is the same as the traditional SLC structure except the designer can include cross feed terms which couple the fast and slow inputs and outputs of the design. In the state space formulation, cross coupling is represented by non-zero off diagonal terms in the compensator gain matrices. An example of a compensator structure with cross feed from the slow sampled sensor to the fast sampled updated control loop is given in Eqn. (2. 10).

$$\begin{bmatrix} \dot{x}_{slow} \\ \dot{x}_{fast} \end{bmatrix} = \begin{bmatrix} A_{slow} & 0 \\ 0 & A_{fast} \end{bmatrix} \begin{bmatrix} x_{slow} \\ x_{fast} \end{bmatrix} + \begin{bmatrix} B_{slow} \\ B_{fast} \end{bmatrix} u$$

This structure is best applied to systems which have coupling between their fast and slow closed-loop dynamics. See Yang 1988 for a discussion of cross feed in the TLA problem.

2. 4. 2. Optimizing the Digital Processor Gains Having chosen an appropriate compensator structure and sampling schedule, the designer can use our synthesis algorithm to calculate optimum values for the digital processor gains A_z , B_z ...


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