

## Boundary Feedback Stabilization of an Overhead Crane Model

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**Abstract :** A problem of boundary feedback (exponential) stabilization of an overhead crane model represented by a PDE is considered. For any  $r > 0$ , the exponential stability at the desired decay rate  $r$  is solved in semi group setting by a collocated-type stabiliser of a target system combined with a term involving the solution of an appropriate PDE.

**Keywords :** feedback stabilization, semi group and generator, overhead crane system

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