

Support of $\mathcal{H}_\infty$ by $\mathcal{H}_\infty$ -optimal control

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August 1993

1 Introduction

The problem of $\mathcal{H}_\infty$ -optimal control is considered in this paper. The main result is a necessary condition for the existence of an $\mathcal{H}_\infty$ -optimal controller.

2 Preliminaries

Let G be a transfer function matrix

$$G(s) = \begin{bmatrix} G_{11}(s) & G_{12}(s) \\ G_{21}(s) & G_{22}(s) \end{bmatrix}$$

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where $G_{11}(s)$ is the transfer function from the disturbance w to the controlled output z , $G_{12}(s)$ is the transfer function from the disturbance w to the measured output y , $G_{21}(s)$ is the transfer function from the measured output y to the controlled output z , and $G_{22}(s)$ is the transfer function from the measured output y to the measured output y .

Let $\mathcal{H}_\infty$ be the set of all transfer function matrices $G(s)$ such that $\|G(s)\|_\infty < \infty$ for all $s \in \mathbb{C}$ with $\operatorname{Re}(s) \geq 0$.

$$\|G(s)\|_\infty = \sup_{\omega \in \mathbb{R}} \|G(j\omega)\|_2$$

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The $\mathcal{H}_\infty$ -optimal control problem is to find a controller $K(s)$ such that $\|G(s)K(s)\|_\infty < \infty$ and $\|G(s)K(s)\|_\infty$ is minimized.

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Michael Seilmaier



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