

the \mathcal{H}_2 norm of the error signal $\|e\|_2$ is bounded by the \mathcal{H}_2 norm of the disturbance $\|d\|_2$ multiplied by the \mathcal{H}_2 norm of the transfer function $\|G\|_2$. The \mathcal{H}_2 norm of the transfer function G is a measure of the energy of the system response to a unit impulse input. The \mathcal{H}_2 norm of the transfer function G is a measure of the energy of the system response to a unit impulse input.

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