Chapter-4

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10:43 AM

$$u(D) \in \mathbb{R}.$$

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$$\Rightarrow u(D) = \underbrace{x(H) - Ax(D)}_{V}.$$

$$rin \quad F = \underbrace{\sum_{t=1}^{N-1} f(u(D))}_{t} \quad s.t. \quad x(D) = \underbrace{x_{D}}_{D}.$$

$$f(a) = \begin{cases} |a| & |a| \leq 1 \\ 2|a|-1 & |a| > 1. \end{cases}$$

min
$$1t$$
 $st-Nu = x_{des}$.
 $-y \stackrel{>}{=} u \stackrel{>}{=} y$
 $t \stackrel{>}{=} 2y-1$

a min
$$\vec{c}_{x} \leq t$$
. $xAx \leq 1$. $A \in S_{+}^{n}$, $c \neq 0$

Let $y = A^{k} \times$, $c = A^{-k} c$.

min $\vec{c}_{y} = -c$
 $y^{*} = -c$