

Optimal Control of Systems

Given a system: $\dot{x} = f(x, u, t)$; $x \in \mathbb{R}^n$, $u \in \Omega \subset \mathbb{R}^p$; $x(0) = x_0$

Find the control $u(t)$ for $t \in [0, T]$ such that

$$u = \arg \lim_{u \in \Omega} \underbrace{\int_0^T L(x, u) dt}_{\text{Instantaneous (Stage) Cost}} + \underbrace{V(x(T), u(T))}_{\text{Terminal Cost}}$$

$J(x, u)$

- Can include constraints on control u and state x
 - (along trajectory or at final time):
- Final time T may or may not be free (we'll first derive fixed T case)

Optimum Systems Control

Christian G. Meyer



Optimum Systems Control:

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Optimum Systems Control**

In a global inundated with monitors and the cacophony of fast conversation, the profound power and psychological resonance of verbal art often fade into obscurity, eclipsed by the constant barrage of noise and distractions. However, situated within the lyrical pages of **Optimum Systems Control**, a fascinating function of fictional beauty that impulses with natural emotions, lies an unique trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this enchanting opus courses readers on a mental odyssey, softly exposing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect its captivating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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