Nonlinear Adaptive Controller

 







Define:









If a is unknown, How?

As Sumption :a 常数，缓慢变化。



Estimate:

Estimate error:



Define Lyapunov function





If：



Lemma :if Lyapunov-like lemma

(1)

(2),where 

(3) ifis bounded the  is uniformly continuous then 

So:



