引動1. (3 = f(x) + g(x) (70 + f(x, 2)). $||f(x, 2)||_2 = f(x) + ||y||_2$, $0 \le ||x|| < 1$. $\frac{\partial V}{\partial x} f(x) \le -\alpha_2(x)$. $\alpha_2(x) > \beta^2(x)$. $\beta(x) \le \beta_1 \phi(x)$. $\alpha_3(x) > \beta^2(x)$. $\beta(x) \le \beta_1 \phi(x)$. $\beta(x) \le \beta_2 \phi(x)$. $\beta(x) \le \beta_1 \phi(x)$. $\beta(x) \le \beta_2 \phi(x)$.

-- シンチ(x) = から(x) - by V対称称及型 x: f(x)+g(x)であしypuのよみ

 $\dot{V} = \frac{\partial V}{\partial t} + \frac{\partial V}{\partial x} (f + Qv) + \frac{\partial V}{\partial x} Q (v + g) -$

 $\dot{V} \leq -\alpha_{S}(x) + \frac{\partial V}{\partial x}G(v+b)$, $1/\lambda w = (\frac{\partial V}{\partial x}g)^{T}$. $\dot{V} \leq -\alpha_{S}(x) + w^{T}v + w^{T}\delta$.

· 11 8 (x. v) 112 = p(x)+ ko 110112. 0 = ko =1.

: wtv+ wtf = nolls || &| | + vtv = noto + (molls | f + kollv1|s].

- wtv+wtf = -k||w||2+P||w||6 + kok||w||2 = -k(+ko)||w||2+P||w||2.

: 3 K = 1-10 M. WTV+ WTS = -PIIWII2 + PII WII2 = 0

: best. V =-az(x)+ 20TV+10TJ = -az(x)

:闭环各级压点在19=-kwpf3m亚稳矩。

X7-= 11] | ent = 00

高别的是在是这直18的15公时,是我提出了的15家家等是一百百万大

司船2.

 $\begin{cases}
\dot{X} = f(x) + g(x) (u + d(t, X, u)). \\
\dot{X} = f(x) + g(x) \psi(x) \text{ in in } \mathcal{R}_{-} \dot{\mathcal{I}}
\end{cases}$ $\exists V, \quad S : t \quad \frac{\partial V}{\partial X} (f + g\psi) \leq -\alpha_{3} \omega, \quad \alpha_{3}(x) > 0$

置は: 并川火(x)-引ナ、x,21) = $\rho(x)$ + $\rho(x)$ + $\rho(x)$ + $\rho(x)$ + $\rho(x)$ も $\rho(x)$

: 注句 $u = -\frac{NW}{NWH_2}$, 後 $w^T u + w^T f = -\eta (1 - k_0)||w||_2 + \rho ||w||_2$ $\eta = \frac{\rho}{1 + k_0}, \quad w^T u + w^T f = -\rho ||w||_2 + \rho ||w||_2 = 0$

文= f+ Gy>+Giu+J-y) => V= また + まり + まで[Gy] + まで[Gy] + まで[Gy] + まで[Gy] + まで [Giu+J-y) 」。 に 広点仏然 発点

引起了. 为=2+8(t,x). f(x)=a0+a1x+a2x2.

 $\psi(x,t)=-\chi. \qquad \bigvee=\frac{1}{2}\chi^2$

:: X=0 对 X=-X (粉络) 为 G.A.S.

1 No = 3. 9 = X. 2 A & Markette

: V = - kw ||T||2 = - kx

 $\hat{X} = -X - kX + \delta$. $\hat{V} = Y\hat{X} = -X^2 - kX^2 + \frac{\partial \delta}{\partial X}$.

· 38+13有看出数型18的1=比时、总能设计以及系络华色-张百春