

(manh)

 I_L

$$\frac{K_{WPS} \times K_{comp}}{1 + s T_{WPS}}$$

 ΔI_{L1}

$$\frac{1 + s T_{a1}}{1 + s T_{b1}}$$

 ΔI_{L2}

$$\frac{1 + s T_{a2}}{1 + s T_{b2}}$$

 V_{PS}

$$\dot{\Delta I_{L1}} = \frac{1}{T_{WPS}} \left\{ -\Delta I_{L1} + K_{WPS} \times K_{comp} \times I_L \right\}$$

$$I_L = g_{FB}(V_F - V_B)$$

$$g_{FB} = Y_{FB}(T, \beta)$$

$$\Delta I_{L1}(1 + s T_{a1}) = (1 + s T_{b1}) \cdot \Delta I_{L2}$$

$$\Delta I_{L1} + s T_{a1}(\dot{\Delta I_{L1}}) = \Delta I_{L2} + T_{b1}(\dot{\Delta I_{L2}})$$

$$\dot{\Delta I_{L2}} = \frac{1}{T_{b1}} \left\{ -\Delta I_{L2} + \Delta I_{L1} + T_{a1}(\dot{\Delta I_{L1}}) \right\}$$

$$\dot{V_{PS}} = \frac{1}{T_{a2}} \left\{ -V_{PS} + \Delta I_{L2} + T_{a2}(\dot{\Delta I_{L2}}) \right\}$$

$$\frac{\dot{V_{PS}}}{V_{PS}} = \frac{1}{T_{a2}} \left\{ -V_{PS} + \Delta I_{L2} + T_{a2}(\dot{\Delta I_{L2}}) \right\}$$