

$$x(t) = \begin{bmatrix} f_1(x(t), u(t)) \\ f_2(x(t), u(t)) \end{bmatrix} = \begin{bmatrix} \frac{d}{dt} < i(t) \\ \frac{d}{dt} < v(t) > T_s \end{bmatrix}$$

$$x(t) = \begin{bmatrix} \frac{1}{L} \left[\langle v_{j}(t) \rangle_{T_{s}} - \langle v(t) \rangle_{T_{s}} - 2Ron \langle i(t) \rangle_{T_{s}} \right] d(t) \\ + \frac{1}{L} \left[-\langle v_{j}(t) \rangle_{T_{s}} - \langle v(t) \rangle_{T_{s}} - 2Ron \langle i(t) \rangle_{T_{s}} \right] d(t) \\ - \frac{1}{L} \left[\langle i(t) \rangle_{T_{s}} - \frac{\langle v(t) \rangle_{T_{s}}}{R} \right] d(t) + \frac{1}{L} \left[\langle i(t) \rangle_{T_{s}} - \frac{\langle v(t) \rangle_{T_{s}}}{R} \right] d(t) \end{bmatrix}$$



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