





































$$\begin{aligned} & F_{in1} - V_{in2} = \sqrt{\frac{2I_{D1}}{\mu_n C_{ox}} \frac{W}{L}} - \sqrt{\frac{2I_{D2}}{\mu_n C_{ox}} \frac{W}{L}} \\ & \left(V_{in1} - V_{in2}\right)^2 = \frac{2}{\mu_n C_{ox}} \frac{W}{L} \left(I_{D1} + I_{D2} - 2\sqrt{I_{D1}I_{D2}}\right) \\ & \frac{1}{2} \mu_n C_{ox} \frac{W}{L} \left(V_{in1} - V_{in2}\right)^2 - I_{SS} = -2\sqrt{I_{D1}I_{D2}} \\ & \frac{1}{4} (\mu_n C_{ox} \frac{W}{L})^2 (V_{in1} - V_{in2})^4 + I_{SS}^2 - I_{SS} \mu_n C_{ox} \frac{W}{L} (V_{in1} - V_{in2})^2 = 4I_{D1}I_{D2} \end{aligned}$$



































