$$\frac{\text{Mole fraction of DUS}}{\text{y bus} = \frac{\text{QbHy}}{\text{QNH3} + \text{Qbus}}} = \frac{10 \text{ sccm}}{\text{NO sccm+ 10 sccm}} = \frac{10 \text{ sccm}}{\text{NO sccm+ 10 sccm}} = \frac{10 \text{ sccm}}{\text{NH3}} = \frac{10 \text{ sccm}}{\text{NH3}}$$

Concentration of bus

$$\frac{n}{v} = \frac{p_{q}}{RT} = \frac{(0.1593)(33.32 \, Pa)}{(8.314 \, J/ck.mol))(33.43) R}$$

Cous = 9.97 x 10-4 mol/m3

kinctic Egin

peposition rate

Stoichiometric coefficient SiCl2H2: Si3N4 = 3=1 approximate deposition rate $\approx \frac{1}{3} (9.44 \times 10^{-6} \text{ mol/cm}^2 \cdot 5) \approx 3.05 \times 10^{-6} \text{ mol/cm}^2 \cdot 5)$ by neglecting surface kinetics

mwsizu4 = 140.28 g/mol esizu4 = 3000 kg/m3

beposition rate = 1.43 4/5 = 85.8 A/min