



$$\text{I } .1028 \quad .0528 \quad .0078$$

$$\text{C } -x \quad -x \quad +2x$$

$$\text{E } (.1028-x)(.0528-x)(.0078+2x)$$

$$K_c = 0.0125 = \frac{(.0078+2x)^2}{(.1028-x)(.0528-x)}$$

solve by quadratic

$$0 = 3.9875x^2 + 0.029255x - (7.61 \times 10^{-4})$$

$$x = 0.000232$$

$$[\text{N}_2] = 0.1026, \text{ or } 0.103$$

$$[\text{O}_2] = 0.0526$$

$$[\text{NO}] = 0.00826$$