



$$\frac{\mathrm{d}}{\mathrm{d}t} \left[c(\mathrm{O}_3) \right] = - (2.3 \times 10^{-11}) \cdot c(\mathrm{CFC}) \cdot c(\mathrm{UV})$$

where k is reaction rate constant.

$$c(\mathrm{O}_3) \propto \frac{1}{c(UV)}$$

$$\frac{dP}{dt} = k \cdot P \cdot \frac{G}{Q}$$

$$\frac{\mathrm{d}}{\mathrm{d}t}G = a \cdot G \cdot \left(1 - \frac{P}{K}\right)$$

where k and a represent proportional sensitivity.