

Equation of Motion - Consider the time-dependence of the current descity. $\bar{p}(t) = m \bar{V}(t)$ $j = ne \hat{p}(t)$ - (on sider collision probability (dt/2) and external force f(+). Result: (Problem Set #1) $\frac{d p(t)}{dt} = - \frac{p(t)}{2} + f(t)$ - collisions (2) introduce damping term (& velocity) to equ of motion.