[D25] (2008, 11.2)
galvanometer, T

$$\ddot{\chi} + \omega_0^2 \chi = -\gamma \dot{\chi} + A(t) + dI$$

$$<\chi > = \frac{dI}{\omega_0^2} \qquad = \ddot{\chi} = \dot{\chi} = 0 \quad \text{frow 11007} \quad \text{(formulation of the properties of the$$

$$\left(\frac{dI}{w_s^2}\right)^2 > \left(\frac{k_sT}{mw_o^2}\right)$$

$$\Rightarrow I^2 > \frac{k_sTw_o^2}{md^2}$$

$$I = I_0 \cos(\omega t) \qquad \text{Pind} \qquad \text{Pind}$$

$$\left(-m W^{2} - i m y w + m w_{o}^{2}\right) \chi_{w} = m A(w) + J(w)$$

$$\left(\chi_{w}\right) = d_{x}(w) J(w)$$

$$d_{x}(w) = -\sqrt{m}$$

$$dx(u) = \frac{\sqrt{m}}{(w_0^2 - w^2) - i\gamma u} \rightarrow I_m(dx(w)) = \frac{\gamma u/m}{(w^2 - w_0^2)^2 s \gamma^2 w^2}$$