Inductor Applications:

(1) **Filter** (blocks high frequencies; “choke”)

(2) **Transient behavior**: timer circuits

\[ \tau = \frac{L}{R} \]

(3) **AC effects**: radio tuners

\[ \omega = \frac{1}{\sqrt{LC}}, \text{natural oscillation frequency.} \]

\[ \Rightarrow \text{inductive sensors} \]

(4) **Energy storage**

*e.g.* Superconducting Magnetic Storage
(mostly experimental technology)