

Faraday's Low: Changing magnetic flax induces a courrent

$$\begin{array}{c|c}
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 & \overline{B} & \overline{B} & \overline{B} & \overline{A} = BA\cos\theta \\
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Inductance

Inductors-resist change in current E=-L dI dt

Capacitos - su tales up all current €000,= -

initial - acts like really lig resistance

c'nitial-acts like wire

steady-state - wire

Steady final-no current flows through

Enegy Density

4== = = EZ

Chaning an inductor W= LIZ

W= 1 CAV2

In sails -> invest in paallel -> sunmation

 $\frac{1}{-10}\int_{-10}^{10} \frac{1}{dt} = \frac{1}{20}$ Charge

Kirchoffs Pule 41:

Dischage: Ic R & - 1R=0

#2: Loop rule 2 = - Lat - IR - = = 0

Helmholtz Gil



