

RC Circuit: Energy Transfer While Discharging



Loop rule: $IR + \frac{Q}{C} = 0$ (I is negative)

- $IV_R = I^2R$: rate at which energy is dissipated in resistor
- $IV_C = \frac{IQ}{C}$: rate at which capacitor releases energy

Balance of energy transfer: $I^2R + \frac{IQ}{C} = 0$

