

Energy Storage and Transfer Model Problems for Energy Transfer and Power

1. A capacitor stores energy when connected to a battery. Calculate the energy stored in a capacitor (200 μF) in a local electric field. The electric field is 1000 V/m. (a) Calculate the energy stored in the capacitor. (b) How long would the capacitor store an amount of energy equal to the energy stored in a battery?

2. If all of the energy from a battery's cells and wires that makes the battery power a light bulb is converted into heat, how long would it take to heat a 100 W light bulb to 1000 K? (a) Calculate the energy stored in a battery. (b) Calculate the energy stored in a light bulb. (c) Calculate the energy stored in a light bulb.



Energy Transfer Diagram

3. A battery stores energy when it is connected to a light bulb. Calculate the energy stored in a battery (200 μF) in a local electric field. The electric field is 1000 V/m. (a) Calculate the energy stored in the battery. (b) Calculate the energy stored in a light bulb. (c) Calculate the energy stored in a light bulb.



Energy Transfer Diagram

Modeling Instruction Worksheet U8 Energy Ws 5 V3 1

SB Merriam



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