

- 1.3 A lightning bolt carrying 30,000 A lasts for 50 microseconds. If the lightning strikes an airplane flying at 20,000 feet, what is the charge deposited on the plane?

SOLUTION:

$$I = 30,000 \text{ A}, \Delta t = 50 \mu\text{s}$$

$$Q = I \Delta t$$

$$Q = 30,000 (50 \mu)$$

$$Q = 1.5 \text{ C}$$