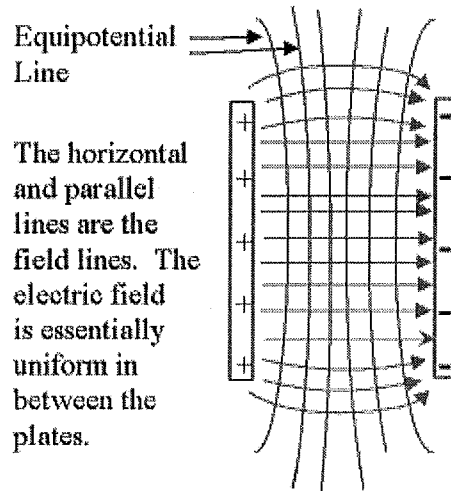


Physics 12
Section 17-2
Electric Potential and Electric Field

1. The electric field between two parallel plates is said to be uniform in the middle and slightly curved on the ends.



2. The relationship between the potential difference and the electric field in between is the following:

$$E = \Delta V/d$$

Where E is the electric field strength (N/C)

ΔV is the potential difference between the plates (J/C)

d = the distance between the two plates (m)

Example 17-2 page 506: Two parallel plates are charged to a voltage of 50V. If the separation between the plates is 0.050m, calculate the electric field between them.

$$E = \Delta V/d$$

$$E = 50V/0.05m$$

$$E = 1000\text{V/m}$$

Do # 5,6,7,8 page 522-523