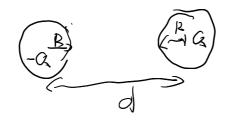


2. Use inage charges to derive the expression of capacity C between 2 balls, vadius R, distance between centres d.



3. A capacitoris of thickness D.

A charge 9 locates obistance of

from one electrodi

19 Find surface charge

induced by image

charges

4. Repeat question 3

Jag

Lip

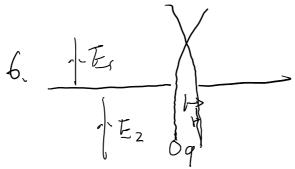
With a voltage source

with a voltage source (find the work done first)

5. Derine potential & near (0,0,0) using 2nd-order expansion.

(a) 4 charges q at (±1,±1,0)

(b) 8 charges q at (±1,±1,±1)



E, Ez we uniform E-field along z-wix a charge q passes through a hole of vadius into E1. Find the focal point with kinetic energy KE