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## ELECTROSTATIC POTENTIAL AND CAPACITANCE

(111. El6ctric porterdial

{a) Potential clue to a conducting sphere of radius r With (-barge q (SOIICI Or hollow) at a distance r from the centre

$$V = \left(\frac{1}{4\pi\epsilon_0}\right) \frac{q}{r}$$

$$\mathbf{v} = \frac{\mathbf{q}}{4 \operatorname{atc}_{d}} \mathbf{R}$$





**VOUSSIUPV MOSUOV** 

{2 ||. Electric. dipole poterrtFaI

V = 1

$$\{a\} V = \frac{1}{4ne_a} \frac{p \cos \theta}{r^2}$$

Ε

(E4 Potential erbergy Of a dipole in an external electric field

if (r > R)

if (r < R)

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