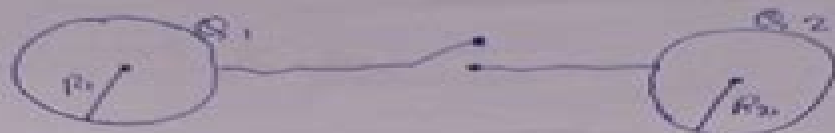


Sharing of charges :-



$$V_1 = V_2$$

$$\Rightarrow \frac{K(Q_1 - q)}{R_1} = \frac{K(Q_2 + q)}{R_2}$$

Ex



Find charge on each conducting sphere after connecting.

Solⁿ.

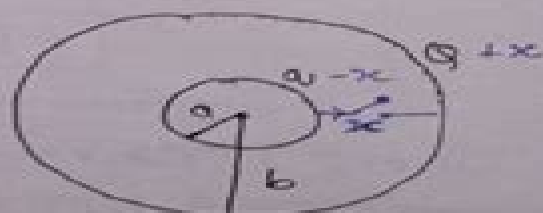
$$\frac{K(3Q - q)}{2R} = \frac{K \cdot q}{R}$$

$$\Rightarrow 3Q - q = 2q \Rightarrow \boxed{q = Q}$$

$$\begin{array}{l} 2R \longrightarrow 2Q \\ R \longrightarrow Q \end{array}$$

Ex

Concentric shells.



Find charge on each shell after connecting.

$$\Rightarrow V_{\text{inner}} = V_{\text{outer}}$$

$$\Rightarrow \frac{K(Q - x)}{a} + \frac{K(Q + x)}{b} = \frac{K(Q - x)}{b} + \frac{K(Q + x)}{a}$$

$$\Rightarrow \frac{Q - x}{a} = \frac{Q + x}{b}$$

$$\Rightarrow Q - x = 0$$

$$\Rightarrow \boxed{x = Q}$$



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Understanding Mechanics A. J. Sadler, D. W. S. Thorning, 1996 This 2nd edition takes into account recent changes to A level syllabuses including the need for modelling It has been reset to match the larger format of its companion UNDERSTANDING PURE MATHEMATICS *CliffsNotes ACT Cram Plan, 2nd Edition* Jane R. Burstein, William Ma, Nichole Vivion, 2014-06-24 This updated edition of the best selling CliffsNotes ACT Cram Plan uses calendars to create a specific study plan for ACT test takers depending on how much time they have left before they take the test Features of this plan to ace the exam product include Timed boxed calendars for preparing to take the ACT two month study calendar one month study calendar and one week study calendar Diagnostic test that helps test takers pinpoint strengths and weaknesses so they can focus their review on topics in which they need the most help Subject reviews that cover everything on the exam English math science and the dreaded essay Full length practice test with answers and explanations **Engineering**

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