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A very long insulating cylinder of radius R_1 has a charge per unit length of λ distributed uniformly throughout the cylinder. The cylinder is surrounded by a concentric conducting shell of inner radius R_2 and outer radius R_3 , as shown in the diagram. The shell contains a charge per unit length of -5λ .

Determine the direction of the electric field and its magnitude as a function of r , the distance from the center of the cylinder for:

- (a) $0 < r < R_1$
- (b) $R_1 < r < R_2$
- (c) $R_2 < r < R_3$
- (d) $R_3 < r$
- (e) What is the charge per unit length on the inner and outer surfaces of the conducting shell?



(a) choose cyl. G.S. of radius r , length L

$$\epsilon_0 \Phi_E = q_{in}$$

$$\epsilon_0 \vec{E} \cdot \vec{A} = q_{in} = \rho V_{in}$$

$$\epsilon_0 E (2\pi r L) = \left(\frac{\lambda}{\pi R_1^2} \right) (\pi r^2 L)$$

$$\rho = \frac{Q}{L A} = \frac{Q}{L \pi R_1^2}$$

$$\lambda = Q/L$$

$$\rho = \frac{\lambda}{\pi R_1^2}$$

$$E = \frac{\lambda r}{2\pi \epsilon_0 R_1^2} \quad \begin{array}{l} \text{direction} \\ \text{radially out} \\ \text{since } \lambda \text{ is +} \end{array}$$

(b) $\epsilon_0 \Phi_E = \epsilon_0 E A = q_{in}$

$$\epsilon_0 E (2\pi r L) = \lambda L$$

$$E = \frac{\lambda}{2\pi \epsilon_0 r} \quad \text{direction radially outward}$$

(c) $E = 0$, inside a conductor

(d) $\epsilon_0 \Phi_E = q_{in}$

$$\epsilon_0 E A = \epsilon_0 E (2\pi r) L = (\lambda - 5\lambda) L = -4\lambda L$$

$$E = \frac{-2\lambda}{\pi \epsilon_0 r}$$

direction radially inward.

inner surface: $-\lambda$

outer surface: -4λ

Since charge inside G.S. within shell must = 0

Total charge/length on shell = -5λ

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