2.12. Electrons are in random motion in a fixed region in space. During any 1μs interval, the probability of finding an electron in a subregion of volume 10⁻¹⁵ m² is 0.27. What volume charge density, appropriate for such time durations, should be assigned to that subregion?

The finite probability effectively reduces the net charge quantity by the probability fraction. With $e = -1.602 \times 10^{-19}$ C, the density becomes

$$\rho_v = -\frac{0.27 \times 1.602 \times 10^{-19}}{10^{-15}} = -43.3 \ \mu\text{C/m}^3$$

- 2.13. A uniform volume charge density of 0.2 μC/m³ is present throughout the spherical shell extending from r = 3 cm to r = 5 cm. If ρ_c = 0 elsewhere:
 - a) find the total charge present throughout the shell: This will be

$$Q = \int_0^{2\pi} \int_0^{\pi} \int_{.03}^{.05} 0.2 \ r^2 \sin\theta \ dr \ d\theta \ d\phi = \left[4\pi (0.2) \frac{r^3}{3} \right]_{.03}^{.05} = 8.21 \times 10^{-5} \ \mu\text{C} = \underline{82.1 \ \text{pC}}$$

b) find r₁ if half the total charge is located in the region 3 cm < r < r₁: If the integral over r in part a is taken to r₁, we would obtain

$$\left[4\pi(0.2)\frac{r^3}{3}\right]_{.03}^{r_1} = 4.105 \times 10^{-5}$$

Thus.

$$r_1 = \left[\frac{3 \times 4.105 \times 10^{-5}}{0.2 \times 4\pi} + (.03)^3 \right]^{1/3} = \underline{4.24 \text{ cm}}$$

- 2.14. The electron beam in a certain cathode ray tube possesses cylindrical symmetry, and the charge density is represented by ρ_v = -0.1/(ρ² + 10⁻⁸) pC/m³ for 0 < ρ < 3 × 10⁻⁴ m, and ρ_v = 0 for ρ > 3 × 10⁻⁴ m.
 - a) Find the total charge per meter along the length of the beam: We integrate the charge density over the cylindrical volume having radius 3 × 10⁻⁴ m, and length 1m.

$$q = \int_0^1 \int_0^{2\pi} \int_0^{3\times 10^{-4}} \frac{-0.1}{(\rho^2+10^{-8})} \, \rho \, d\rho \, d\phi \, dz$$

From integral tables, this evaluates as

$$q = -0.2\pi \left(\frac{1}{2}\right) \ln \left(\rho^2 + 10^{-8}\right) \Big|_0^{3 \times 10^{-4}} = 0.1\pi \ln(10) = \frac{-0.23\pi \text{ pC/m}}{}$$

b) if the electron velocity is 5 × 10⁷ m/s, and with one ampere defined as 1C/s, find the beam current;

Current = charge/m ×
$$v = -0.23\pi$$
 [pC/m] × 5 × 10^7 [m/s] = -11.5π × 10^6 [pC/s] = -11.5π μ A

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