

Exercise 4 - Electrostatics and Magnetostatics

1. Outside a spherical shell there are no charges and on the shell the potential is $V = V_0 \sin \theta \sin n\phi$ where n is some integer. Find the electrostatic potential outside the shell.
2. Within a sphere of radius R , the current density $\vec{j} = j_0(r/R)^s \cos(n\phi) \hat{z}$. Also $n^2 \neq (s+2)^2$ find the vector potential.
3. A spherical shell of radius R with a constant charge density $\sigma = \sigma_0$ is rotated at an angular velocity $\vec{\omega}$. Find the scalar potential and the vector potential by solving Poisson equations. Check that your answer is correct by comparing it to results obtained by using Gauss/Ampere's law.
4. What is the magnetization and magnetic moment of a long cylinder (radius a , length l and permeability μ) in an external magnetic field $\vec{B} = B_0 \hat{z}$? Hint: One has to take care of two cases, when the axis of the cylinder is parallel to the magnetic field and when the axes are perpendicular. Any other situation is a superposition of these two cases. In the perpendicular case one can treat the cylinder as infinite.

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Lingjun Ying



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