Special Problem 4-5.1

Using any valid method, determine the electric field created by the charge density given below:

$$\rho_v(\bar{r}) = \begin{cases} \dfrac{\varepsilon_0}{2r^2} & r < 2 \\\\ 0 & r > 2 \end{cases} \qquad \left[\dfrac{C}{m^3} \right]$$