EX: A solid conducting sphere of radius $a$ carries a net positive charge $2Q$. A conducting spherical shell of inner radius $b$ and outer radius $c$ is concentric with the solid sphere and carries a net charge $-Q$. Using Gauss’s law, find the electric field in the regions labeled ①, ②, ③, and ④ and the charge distribution on the shell when the entire system is in electrostatic equilibrium.