

EXAMPLE 4.5 Is the Coulomb Force Conservative?

Consider the force $\mathbf{F}$ on a charge q due to a fixed charge Q at the origin. Show that it is conservative and find the corresponding potential energy U . Check that $-\nabla U = \mathbf{F}$.

The force in question is the Coulomb force, as shown in Figure 4.7(a),

$$\mathbf{F} = \frac{kqQ}{r^2} \hat{\mathbf{r}} = \frac{\gamma}{r^3} \mathbf{r} \quad (4.39)$$

where k denotes the Coulomb force constant, often written as $1/(4\pi\epsilon_0)$, and γ is just an abbreviation for the constant kqQ . From the last expression we can read off the components of $\mathbf{F}$, and using (4.38) we can calculate the components of $\nabla \times \mathbf{F}$. For example, the x component is

$$(\nabla \times \mathbf{F})_x = \frac{\partial}{\partial y} F_z - \frac{\partial}{\partial z} F_y = \frac{\partial}{\partial y} \left(\frac{\gamma z}{r^3} \right) - \frac{\partial}{\partial z} \left(\frac{\gamma y}{r^3} \right). \quad (4.40)$$

⁸ The condition (4.36) follows from a result called Stokes's theorem. If you would like to explore this a little, see Problem 4.25. For more details, see any text on vector calculus or mathematical methods. I particularly like *Mathematical Methods in the Physical Sciences* by Mary Boas (Wiley, 1983), p. 260.

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LP Steffe



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