

Method of images

Method of images states that we can replace a charge above an infinite conducting plane with an equivalent configuration of the charge and its image. For example, if we have a positive charge Q , the field above the conducting plane will be the same if we replace the plane with an equal and opposite charge $-Q$ as shown in Figure 1.

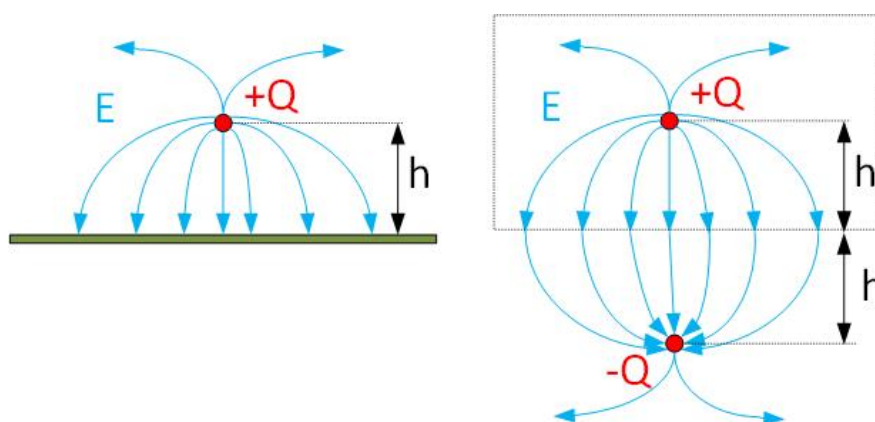


Figure 1: Electric Field due to a point charge above infinite conducting plane.