

Introduction to Week Five

Gradient

Divergence

Curl

Applications

✓ Video: Meaning of the Divergence and the Curl | Lecture 52

10 min

✓ Reading: The Navier-Stokes Equation

20 min

✓ Video: Maxwell's Equations | Lecture 53

11 min

✓ Reading: Electric Field of a Point Charge

10 min

Ⓜ Reading: Magnetic Field of a Wire

10 min

Quiz

Farewell

Electric Field of a Point Charge

Using Gauss's law, given by

$$\oint_S \mathbf{E} \cdot d\mathbf{S} = q_{enc} / \epsilon_0,$$

determine the electric field of a point charge q at the origin. Assume the electric field is spherically symmetric.

✓ Completed

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