

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

Magnetic Field of a Wire

Using Ampère's law given by

$$\oint_C \mathbf{B} \cdot d\mathbf{r} = \mu_0 I_{\text{enc}}$$

determine the magnetic field of an current carrying infinite wire placed on the z-axis. Assume the magnetic field has cylindrical symmetry.

✓ Completed

Go to next item

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