

## Electromagnetics Schaums Outline Series

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The archive includes lecture notes from various fields such as science, business, and technology.

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creates a magnetic field in the solenoid

approach this conducting wire with a bar magnet

approach this conducting loop with the bar magnet

produced a magnetic field

attach a flat surface

apply the right-hand corkscrew  
using the right-hand corkscrew  
attach an open surface to that closed loop  
calculate the magnetic flux  
build up this magnetic field  
confined to the inner portion of the solenoid  
change the shape of this outer loop  
change the size of the loop  
wrap this wire three times  
dip it in soap  
get thousand times the emf of one loop  
electric field inside the conducting wires now become non conservative  
connect here a voltmeter  
replace the battery  
attach the voltmeter

switch the current on in the solenoid  
know the surface area of the solenoid

Feynman: Mathematicians versus Physicists - Feynman: Mathematicians versus Physicists by Teh-Physicalist 832,419 views 11 years ago 9 minutes, 47 seconds - Richard Feynman on the general differences between the interests and customs of the mathematicians and the physicists.

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Chapter 1. Review of Forces and Introduction to Electrostatic Force

Chapter 2. Coulomb's Law

Chapter 3. Conservation and Quantization of Charge

Chapter 4. Microscopic Understanding of Electrostatics

Chapter 5. Charge Distributions and the Principle of Superposition

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Chapter 1. Background

Chapter 2. Review of Wave Equation

Chapter 3. Maxwell's Equations

Chapter 4. Light as an Electromagnetic Wave

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Rectangular Coordinates and Cylindrical Coordinates and Spherical Coordinates

Cylindrical Coordinates

Middle Integral

Recap

The Divergence Theorem

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Which of the two is scattered more easily light of shorter wavelength of light of longer wavelength?

Which Colour is scattered most?

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Introduction

What are Vectors

Vector Fields

Vector Addition

Cartesian coordinate system

Component vectors

Unit vectors

Distance vectors

Vector norm

Vector field

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Intro

Electromagnetics in the Modern World

Electromagnetic Waves

Wireless Communications

Electromagnetics in RFID

Electromagnetics in Remote Sensing

Electromagnetics in Medical Imaging

Electromagnetic Linear Accelerators (LINAC)

Electrostatic Sensors

Electrostatic Actuators: Digital Micromirror Devices

Electrical fields for Cell and Droplet Sorting

Optical Tweezers: Using Light to move objects

Electromagnetics in Power Generation

Electromagnetics in Solar Power Generation

Electromagnetics in Power Delivery

Here's something you may not know

Supercapacitors for Energy Storage

Electromagnetics in Electronics Design

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Skin depth, o

Lenz's Law

Ampere's & Biot-Savart Laws

Ampere's Law

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solve for the average magnetic field intensity

estimate the coil inductance

approximate the peak coil current

oscillates back and forth between the capacitor and the inductor

estimate the magnetic field intensity

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Introduction

Part A

Part B

Part C

Part D

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Introduction

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Solving Problems

Supplementary Problems

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