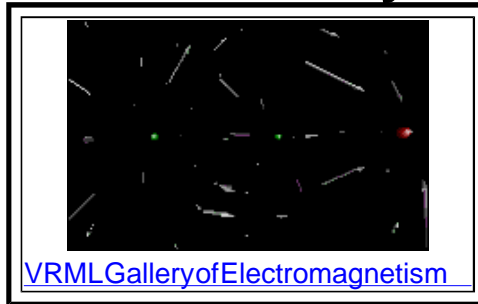


PHY212-GeneralPhysicsII



- [Rob Salgado](#) (Instructor and Recitation Leader)
257 Physics Bldg
443-5967, fax 443-9103
salgado@physics.syr.edu




- Use the [Mail-form](#) 

- **Homework**
- **EXAM 4: (Chapters 13 - 17)**
Choose one time:
THU 1:00-2:20am (in B129E)
THU 3:00-4:20pm (in 257)
FRI 8:00-9:20am (in 257)
FRI 10:00-11:20am (in B129E)
No time extensions for late-comers



PHY212-STAFF

CLINIC HOURS  none for summer)

	Rob Salgado (PHY212 Instructor and Recitation Leader) 257 Physics Bldg (x5967) salgado@physics.syr.edu (or use the FORM below)	Lecture	MTWTh 9:30-11:00 (B129E)
		Discussion	MTWTh 11:00-11:50 (B129E)
	Abdou Abdel-Rehim (PHY222) 411 Physics Bldg (x3978) abdou@physics.syr.edu (or use the FORM below) Clinic Hours:	Laboratory	MW 2:30-4:30 (110)
	Regina Jones (Undergraduate Secretary) 111 Physics Bldg (x1915) jones@physics.syr.edu (or use the FORM below)		

Send Email to

Your Name:
 Your Email:
 subject:

PHY212textbook

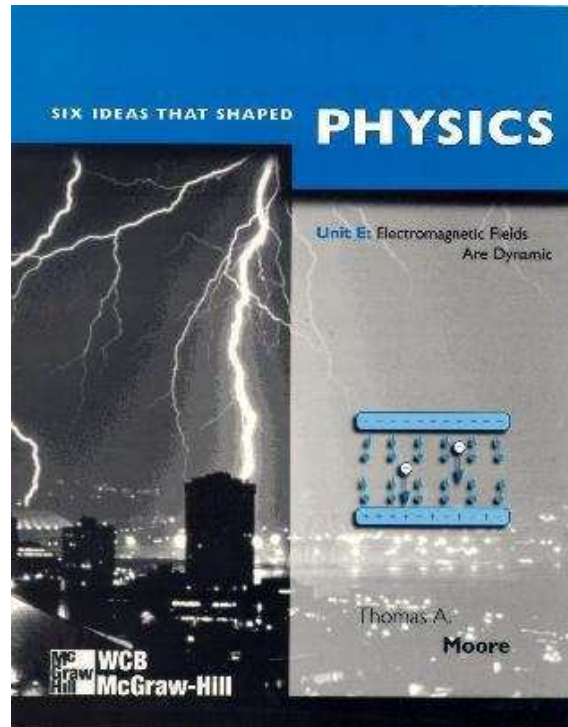
Six Ideas That Shaped Physics

by Thomas A. Moore

published by WCB/McGraw-Hill, 1998

unit E

Electromagnetic Fields Are Dynamic



[Typos](#)

[Instructors' Discussions](#)

Supplementary textbooks I recommend:

- **Conceptual Physics** by Hewitt (Great explanations!)
- **Fundamentals of Physics** by Halliday/Resnick/Walker (good examples)
- **Physics** by Halliday/Resnick/Krane (Update of a classic!)
- your **Calculus** book! (Yes, we will use calculus.)
- **The Physics Problem Solver** by REA (worked problems)
- **Lectures on Physics** by Feynman/Leighton/Sands (Advanced. Great explanations!)

These are available in the Physics library.

Last modified: Mon Jun 22 14:17:20 1998

PHY212-Introduction

PHY212 is an introductory calculus-based course in the study of electricity, magnetism, and light.

Electromagnetism:

- prerequisites: MAT285 or 295 and PHY211
- co-requisites: MAT286 or 296

This course moves quickly.

If you are having trouble, slow down and ask questions.

Please do not fall behind.

Announcements, Homework assignments, Homework solutions, and Lecture notes will be made available through this website. Check it frequently.

This course will also feature innovative experiments in physics- education

- encouraging collaborative discussions:
[PHY212 Discussion Board](#)
- visualizing with Virtual Reality:
[VRML Gallery of Electromagnetism](#)
- learning with Java Applets:
[Java Applets for Electromagnetism](#)
- video demonstrations:
[All You'll Ever Need to know about... The Right Hand Rule](#)

Your **comments** on these experiments are strongly encouraged.

salgado@physics.syr.edu

PHY212/222Syllabus

Meetingtimes:

- (* REVISED *)
- (LEC) LECTURE with ROB: MTWTh 9:30am-11:00am (B129E)
 - (REC) RECITATION with ROB: MTWTh 11:00am-11:50pm (B129E)
 - (LAB) LABORATORY with ABDU: M W 2:30pm- 4:30pm (110)

Calendar:

1998						
SUMMER-SESSION II						
July 1 - August 8						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
JUN 30						
JUL 1			1	2		
	6	7	8	9		[10 cancel]
	13	14	15	16		
	20	21	22	23		
	27	28	29	30		
AUG 3	4	5	6	7		

Schedule:

212 LECTURE

(TUE 30 Jun)	Basic Electrostatics (pt 1)
(WED 1 Jul)	Basic Electrostatics (pt 2)
(THU 2 Jul)	Electric Fields
(MON 6 Jul)	Fields and Currents
(TUE 7 Jul)	LEC only: ** EXAM 1 (10am-11:20am)
(WED 8 Jul)	voltage
(THU 9 Jul)	Simple Circuits
(FRI 10 Jul)	(Cancel)
(MON 13 Jul)	Analyzing Circuits
(TUE 14 Jul)	*Capacitors and Energy (pt 1)
(WED 15 Jul)	*Capacitors and Energy (pt 2)
(THU 16 Jul)	LEC only: ** EXAM 2 (10am-11:20am)
(MON 20 Jul)	Magnetic Fields
(TUE 21 Jul)	Magnetic Forces on Currents
(WED 22 Jul)	Currents Create Magnetic Fields
(THU 23 Jul)	Field Equations and Gauss' Law
(MON 27 Jul)	Cur and Ampere's Law (pt 1)
(TUE 28 Jul)	Cur and Ampere's Law (pt 2)
(WED 29 Jul)	LEC only: ** EXAM 3 (10am-11:20am)
(THU 30 Jul)	Applications to Static Fields
(MON 3 Aug)	*Finding Maxwell's Equations
(TUE 4 Aug)	Induction
(WED 5 Aug)	*Electromagnetic Waves
(THU 6 Aug)	*EM Waves Carry Energy
(FRI 7 Aug)	LEC only: ** EXAM 4 (10am-11:20am)

222 LAB

(WED) 2	ELECTROSTATICS
(MON) 3	COMPUTER LAB
(WED) 4	ELECTRIC POTENTIAL
(MON) 6	DC CIRCUITS
(WED) 7	RC CIRCUITS
(MON) 8	MAGNETIC FIELDS
(WED) 5	GAUSS
(MON) 9	AMPERE
(MON) 10	FARADAY