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Notes

# PHY212-GeneralPhysicsII

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Textbook

Usethe Mail-form





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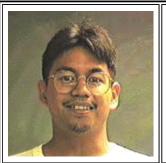
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### PHY212-STAFF





RobSalgado (PHY212InstructorandRecitationLeader) 257PhysicsBldg(x5967) salgado@physics.syr.edu (orusethe FORMbelow)

MTWTh8:30-10:00 Lecture (PB104)

MTWTh10:00-11:00 Recitation (PB104)



### BadisIdri

(PHY212/222GraderandRecorder) 406PhysicsBldg(x5982) idri@physics.syr.edu (orusethe FORMbelow)

ClinicHours:



# DavidDelphenich

(PHY222LabInstructor) 243PhysicsBldg(x3920) delpheni@physics.syr.edu (orusethe FORMbelow)

ClinicHours:



# ReginaJones

(Undergraduate Secretary) 111PhysicsBldg(x1915) jones@physics.syr.edu (orusethe FORMbelow)

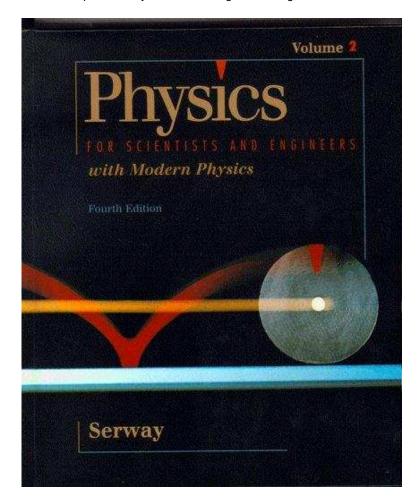
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Subject:	-PHY 212 <b>▼</b>

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### PHY212TEXTBOOK

volume2
of
PhysicsforScientistsandEngineers(withModernP hysics)
4thedition
byRaymondA.Serway

publishedbySaundersCollegePublishing,1996



Thetextbookhasfinallyarrived.

(Ideally, wewould have used Volume 2 of the PHY21 However, the publisher does not have it ready yet. Our text is a slightly-more advanced version.)

1text.

#### Supplementarytextbooks/recommend:

- ConceptualPhysics byHewitt(Greatexplanations!)
- FundamentalsofPhysics byHalliday/Resnick/Walker(goodexamples)
- PhysicsbyHalliday/Resnick/Krane(Updateofaclassic!)
- your Calculusbook!(Yes, wewillusecalculus.)
- ThePhysicsProblemSolver byREA(workedproblems)
- LecturesonPhysics byFeynman/Leighton/Sands(Advanced.Greatexplana tions!)

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## **PHY212-Introduction**

PHY212isanintroductorycalculus-basedcoursein thestudyofelectricity, magnetism, and light.

**Electromagnetism:** 

prerequisites:MAT285or295andPHY211

co-requisites:MAT286or296

Thiscoursemovesquickly.

Ifyouarehavingtrouble, slowmedown and ask que stions.

Pleasedonotfallbehind.

Announcements, Homework assignments, Homework solut andLecturenoteswillbemadeavailablethroughth iswebsite. Checkitfrequently.

### **Thiscoursewillsomefeatureinnovativeexperiment**

sinphysics- education

- emphasizing"HOWyougettotheanswer"
- encouraging collaborative discussions: PHY212DiscussionBoard
- visualizingwithVirtualReality: VRMLGalleryofElectromagnetism
- learningwithJavaApplets: **JavaAppletsforElectromagnetism**
- videodemonstrations:

AllYou'llEverNeedtoknowabout...TheRightHan dRule

Your comments on these experiments are strongly encouraged.

salgado@physics.syr.edu

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# PHY212Syllabus

#### **Meetingtimes:**

LECTURE with ROB: MTWTh 8:30am-10:00am (subject to revision)
 RECITATION with ROB: MTWTh 10:00am-11:00am (subject to revision)
 LAB with DAVID: M W 2:30pm- 4:30pm (subject to revision)

#### Calendar

1997 SUMMER-SESSION II July 1 - August 8

Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat 1 2 7 8 9 [10] [4] 5 6 7 [8] 14 15 16 17 [21] 22 23 24 [28] 29 30 31

### July1-July3

(NoclassTHUJuly3-UniversityHoliday)

TUE-July1

- (23)ElectricCharge(Franklin)
- (23)ElectricForceonanElectricCharge(Coulomb)

WED-July2

(23)ElectricVectorField

THU-July3

(Holiday)

# (EXAM1onTHUJuly10) MON-July7 (23)ElectricVectorFieldII (skim24)ElectricFlux(Gauss) (Wewillreturntoitlater.ltisnotonExam1.) [Lastdaytoadd, lateregister, changegradingopt ionfor6-weekSessionIIclasses.] TUE-July8 (25)ElectricPotentialEnergy • (25)ElectricPotential WED-July9 Recitationonly (NOLECTURE:Robisoutoftown) [LastdaytodropSessionIIclassesforfullrefun] d.] THU-July10 • EXAM1(forJuly1thruJuly9material:Ch23and Ch25) • (Robreturns.) FRI-July11 • (NOCLASS) youcanpickupyourexamsfromRob July14-July17 MON-July14 • (26) Electric Energy Storage: Capacitance

#### TUE-July15

- (27)CurrentandResistance
- (28)ElectricCircuits:resistivecircuits

#### WED-July16

(28)ElectricCircuitsII:RCcircuits
THU-July17
<ul> <li>(29)Nomonopoles(preludetoGauss)</li> <li>(29)MagneticForceonanElectricCharge(Lorentz)</li> </ul>
July21-July24
(EXAM2onMONJuly21)
MON-July21
• EXAM2(forJuly14thruJuly16material:Ch26,27 ,28)
TUE-July22
• (30)MagneticVectorFieldI:(Biot-Savart,Ampere)
WED-July23
• (30)MagneticVectorFieldII:(Ampere,Ampere-Maxw ell)
THU-July24
<ul><li>(24)ElectricFlux(Gauss)</li><li>(30)MagneticFlux(Gauss)</li></ul>
July28-July31
(EXAM3onMONJuly28)
MON-July28
• EXAM3(forJuly17thruJuly24material:Ch24,29 ,30)
TUE-July29
• (31)MagneticInduction(Faraday)
WED-July30

<ul> <li>(32)MagneticEnergyStorage:Inductance</li> <li>(32)ElectricCircuitsIII:RLcircuits,LCcircuit</li> <li>s</li> </ul>
THU-July31
Superconductivity
August4-August8
(EXAM4onFARADAY:August4)
MON-August4
• EXAM4(forJuly28thruJuly31material:Ch31,32 )
TUE-August5
<ul> <li>(34)TheMaxwellEquations</li> <li>(34)ElectromagneticOscillations(Maxwell, Hertz)</li> </ul>
WED-August6
• (35)LawsofGeometricOptics
THU-August7
• REVIEW
FRI-August8
CUMULATIVEFINALEXAM(Ch23-35,exclude33)
Thispageismaintainedby salgado@physics.syr.edu