

DEPARTMENT OF PHYSICS
SPRING 2009 TESTBOOK LIST
January 15, 2009

7A: 1, 2 & 3 KOLOMENSKY, Y & ZETTL, A

- REQ {{Custom made package consisting of:
Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol. 1, 4th Ed., Pearson
MASTERING PHYSICS, STUDENT ACCESS KIT, Prentice Hall
U.C. BERKELEY PHYSICS 7A HANDBOOK}}
Elby *THE PORTABLE T.A., A PHYSICS PROBLEM SOLVING GUIDE, Vol. 1*
Prentice Hall
- (for 7A.1 only)
- REC Feynman *THE FEYNMAN LECTURES ON PHYSICS: COMMEMORATIVE ISSUE*
(Vol. 1) *MAINLY MECHANICS, RADIATION AND HEAT*, 1971, Addison
Wesley
- Feynman *FEYNMAN'S TIPS OF PHYSICS: A PROBLEM-SOLVING SUPPLE TO*
THE FEYNMAN LECTURES ON PHYSICS, 2005, Addison Wesley
-

7B: 1 & 2 HUANG, X & FREEDMAN, S

- REQ {{Custom made package consisting of:
Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol. 2, 4th Ed., Pearson
MASTERING PHYSICS, STUDENT ACCESS KIT, Prentice Hall
U.C. BERKELEY PHYSICS 7B HANDBOOK}}
Elby *THE PORTABLE T.A., A PHYSICS PROBLEM SOLVING GUIDE, Vol. 2*
Prentice Hall
-

H7B: BOBKOV, K

- REQ Purcell *ELECTRICITY & MAGNETISM* (Berkeley Physics Course), Vol. 2, 2nd Ed.,
1985, McGraw-Hill
-

7C: LIN, R & BOGGS, S

- REQ Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS* Vol. 3, 3rd Ed., (custom made),
Pearson
- REQ Tipler *MODERN PHYSICS*, 5th Ed., 2008, Freeman/VHPS
- REQ *WEBASSIGN*, Student Access Code0 Card (College Semester), Webassign
-

H7C: SIDDIQI, I

- REQ Bennett *PRINCIPLES OF PHYSICAL OPTICS*, 2008, Wiley
- REQ Serway *MODERN PHYSICS*, 3rd Ed., 2005, Thompson/Brooks Cole
-

8A: 1 & 2 SPELIOTOPOULOS, S & FAJANS, J

- REQ {{Essential Univ. Physics (Vol. 1) Wolfson Package consisting of:
Wolfson *PHYSICS 8A STUDENT LEARNING HANDBOOK*, Pearson
ESSENTIAL UNIV. PHYSICS (Vol. 1)
MASTERING PHYSICS STUDENT ACCESS KIT, Prentice Hall}}
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8B: 1 & 2 POMERANTZ, M & JACOBSEN, R

- REQ {{Essential Univ. Physics (Vol. 2) Wolfson Package consisting of:
Wolfson *PHYSICS 8B STUDENT LEARNING HANDBOOK*, Pearson
ESSENTIAL UNIV. PHYSICS (Vol. 2)
MASTERING PHYSICS STUDENT ACCESS KIT, Prentice Hall}}
-

C10: MULLER, R
REQ Muller *PHYSICS FOR FUTURE PRESIDENTS*, Spring 2009 Ed., Thompson/Brooks Cole_

24: SADOULET, B
REQ Hawking *A BRIEFER HISTORY OF TIME*, 2008, Bantam

105: 1 KERTH, L
REQ Taylor *CLASSICAL MECHANICS*, 2005, University Science Books Sausalito

110A: 2 STAMPER-KURN, D
REQ Griffiths *INTRODUCTION TO ELECTRODYNAMICS*, 3rd Ed., 1999, Prentice Hall
REC Pollack *ELECTROMAGNETISM*, 2001, Addison Wesley

110B: CHARMAN, A
REQ Griffiths *INTRODUCTION TO ELECTRODYNAMICS*, 3rd Ed., 1999, Prentice Hall
REQ French *SPECIAL RELATIVITY*, 1968, W.W. Norton Press
REQ Pedrotti *INTRODUCTION TO OPTICS* 3rd Ed. 2006 or 2nd Ed., 2003, Prentice Hall

111: 1 HOLZAPFEL, W
REQ Horowitz *ART OF ELECTRONICS*, 2nd Ed., 1989, Cambridge University Press
REC Sedra *MICROELECTRONIC CIRCUITS (W/ CD)*, 5th Ed., 2004, Oxford University Press

111: 2 LUK, K & ORENSTEIN, J
REQ Melissinos *EXPERIMENTS IN MODERN PHYSICS*, 2nd Ed., 2003, Academic Press
REQ Taylor *INTRODUCTION TO ERROR ANALYSIS*, 2nd Ed., 1997, University Science Books

112: SADOULET, B
REQ Kittel & Kroemer *THERMAL PHYSICS*, 2nd Ed., 1980, Freeman

137A: CROMMIE, M
REQ Griffiths *INTRODUCTION TO QUANTUM MECHANICS*, 2nd Ed., 2005, Prentice Hall

137B: 1 ENGLISH, D
REQ Griffiths *INTRODUCTION TO QUANTUM MECHANICS*, 2nd Ed., 2000, Prentice Hall

137B: 2 WOHL, C
REC Griffiths *INTRODUCTION TO QUANTUM MECHANICS*, 2nd Ed., 2005, Prentice Hall
REC Schaum's *MATHEMATICAL HANDBOOK OF FORMULAS & TABLES*, 2nd Ed., 1999, Outline McGraw-Hill

The primary reference is notes that will be available as pdf's as the course proceeds. Highly recommend is M.R. Spiegel and J. Liu, "Mathematical Handbook of Formulas and Tables," (2nd ed., Schaum Outline Series). Do NOT get the abbreviated version. Occasional reference will be made to other texts, such as D.J. Griffiths, "Introduction to Quantum Mechanics" (2nd ed.), but it is not necessary to buy one.

138: BUDKER, D
REQ Budker *ATOMIC PHYSICS: AN EXPLORATION THROUGH PROBLEMS AND SOLUTIONS*, 2ND Ed., 2008, Oxford University Press

139: GAILLARD, M

REQ Hartle *GRAVITY: AN INTRODUCTION TO EINSTEIN'S GENERAL RELATIVITY*, 1ST Ed., 2002, Benjamin-Press

141A: SOUZA, I.

REQ Kittel *INTRODUCTION TO SOLID STATE PHYSICS*, 8th Ed., 2005, Wiley
REC Ascroft *SOLID STATE PHYSICS*, 1ST Ed., 1976,

141B: CLARKE, J

REQ Kittel *INTRODUCTION TO SOLID STATE PHYSICS*, 8TH Ed., Wiley

142: BALE, S

REQ Chen *INTRODUCTION TO PLASMA PHYSICS & CONTROLLED FUSION*, 2ndEd. 2006, Springer

C161: MA, C

REQ Ryden *INTRODUCTION TO COSMOLOGY*, 1st Ed., 2002, Addison Wesley

177: LIPHARDT, J

REQ Phillips *PHYSICAL BIOLOGY OF THE CELL*, 2008, Garland Science

H190: LITTLEJOHN, R

REQ Mukhanov *INTRODUCTION TO QUANTUM EFFECTS IN GRAVITY*, 1ST Ed., Cambridge University Press

C201: LEE, SW

No Textbooks Required for this Course

C203: GROSSMAN, J

No Textbooks Required for this Course

205A: KNOBLOCH, E

REQ Jose *CLASSICAL DYNAMICS: A CONTEMPORARY APPROACH*, 1998, Cambridge University Press

211: LEE, D

No Textbooks Required for this Course

216: VISHWANATH, A.

REC Auerbach *INTERACTING ELECTRONS AND QUANTUM MEGNETISM*, 1994, Springer

221B: COMMINS, E

REQ J.J. Sakurai *ADVANCE QUANTUM MECHANICS*, 1967, Addison Wesley

C228: WHITE, M

REQ Dodelson *MODERN COSMOLOGY*, 2003, 1st Ed., Academic Press

231: GANOR, O

REQ Carroll *SPACETIME & GEOMETRY: AN INTRODUCTION TO GENERAL RELATIVITY*, 1st Ed., 2003, Pearson/Benjamin Cummings
REC Wald *GENERAL RELATIVITY*, 1984, University of Chicago Press

232B: HORAVA, P

- REQ Banks *MODERN QUANTUM FIELD THEORY*, 2008, Cambridge University Press
REQ Zee *QUANTUM FIELD THEORY IN A NUTSHELL*, 2003, Princeton Press
REC Peskin & Shroeder *INTRODUCION INTO QUANTUM FIELD THEORY*, 1995, Addison Wesley
-

233A: HALL, L

No Textbooks Required for this Course

234B: BOUSSO, R

No Textbooks Required for this Course

240B: LOUIE, S

- REC Marder *CONDENSED MATTER PHYSICS*, 2000, Wiley
REC Madelung *INTRODUCTION TO SOLID STATE THEORY*, Springer
REC Schrieffer *THEORY OF SUPERCONDUCTIVITY*
REC Yu *FUND OF SEMICONDUCTORS*, 3rd Ed., 2001, Springer
REC Ziman *PRINCIPLES OF THEORY OF SOLIDS*, 2nd Ed., 1972, Cambridge University Press
-

250.1: MOORE, J

- REC Nakahara *GEOMETRY, TOPOLOGY AND PHYSICS*, 2nd., 2003, Taylor and Francis
REC Chaikin *PRINCIPLES OF CONDENSED MATTER PHYSICS*, 1ST Ed., Cambridge University Press
-

250.2: HAEFFNER, H

- REC Haroche *EXPLORING THE QUANTUM: ATOMS, CAVITIES, AND PHOTONS*, 2006 Oxford University Press
-

C285: QUATAERT, E

No Textbooks Required for this Course

300 BOGGS, S

No Textbooks Required for this Course