

### **Course:**

**General Physics II** 

### **Lecturer:**

Hamidreza Habibiyan

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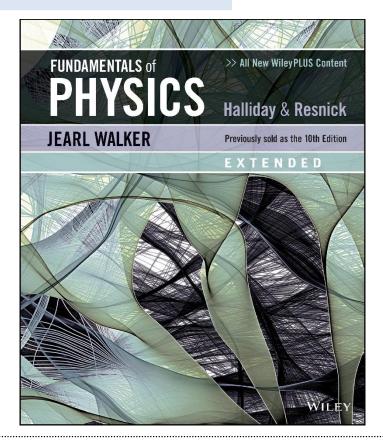


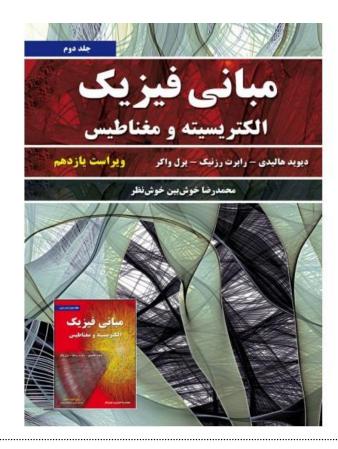
## **Syllabus**

- CH01 Coulomb's Law
- CH02 Electric Fields
- CH03 Gauss' Law
- CH04 Electric Potential
- CH05 Capacitance
- CH06 Current and Resistance
- CH07 Circuits
- CH08 Magnetic Fields
- CH09 Magnetic Fields Due to Currents
- CH10 Induction and Inductance



#### **Course Textbook**



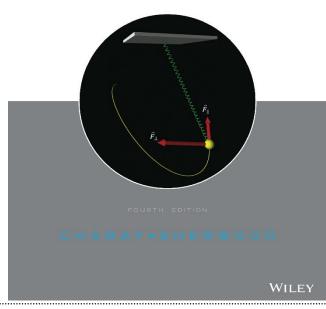


Halliday & Resnick/Jearl Walker, Fundamentals of Physics, 11<sup>th</sup> Edition, John Wiley & Sons, 2018.

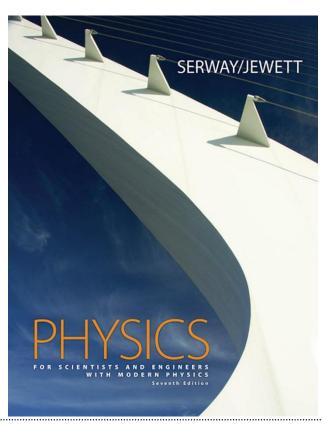
💠 مبانی فیزیک، جلد دوم، ترجمه محمدرضا خوشبین خوشنظر، ویراست یازدهم، نیاز دانش



# MATTER & INTERACTIONS



Ruth W. Chabay & Bruce A. Sherwood, Matter and Interactions, 4<sup>th</sup> Edition, John Wiley & Sons, 2015.



Raymond A. Serway & John W. Jewett, Jr., Physics for Scientists and Engineers with Modern Physics, 7<sup>th</sup> Edition, Brooks Cole, 2008.

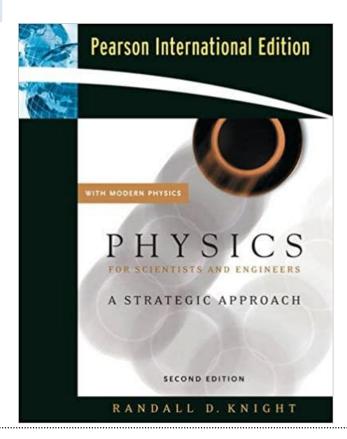






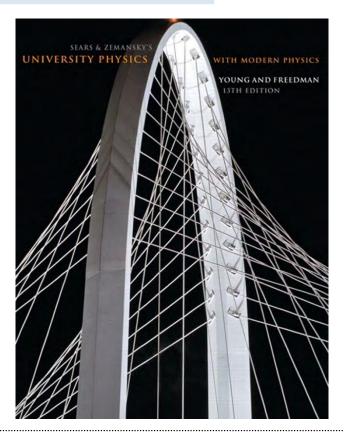
GIANCOLI

Douglas C. Giancoli, Physics for Scientists and Engineers with Modern Physics, 4<sup>th</sup> Edition, Pearson Education, 2009.



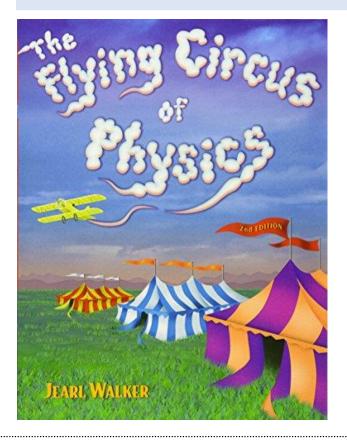
Randall D. Knight, Physics for Scientists and Engineers: A Strategic Approch, 2<sup>nd</sup> Edition, Pearson Education, 2008.





Hugh D. Young, Roger A. Freedman & A. Lewis Ford, University Physics with Modern Physics, 13<sup>th</sup> Edition, Addison- Wesley, 2012.







➤ Jearl Walker, The Flying Circus of Physics, 2<sup>nd</sup> Edition, John Wiley & Sons, 2007.

نمایش میمان انگیز فیزیک، ملددوی، ترممه مممدرضا خوشبین خوشنظر و رسول معفرینژاد، ویراست دوی، آراکس



### **Evaluation Scheme**

- Mid-Term Exam & Quizzes (45%)
- Final Exam (45%)
- > TA (10%)
- Class Attendance (+)