

Some Physical Chemistry and Quantum Chemistry Textbooks

Personally, I would recommend that a suitable route would be to review the material from whichever undergraduate P. Chem. Text you like in order to pick up the material at a comparatively basic level prior to our starting the material.

It is also very helpful to study the PowerPoint and Homework problems, as well as last year's exam (on Web Site).

Physical Chemistry

Physical Chemistry, by P. Atkins and J. De Paula

Physical Chemistry, by R. A. Alberty and R. J. Silbey

Physical Chemistry, by I. N. Levine
QD453.3 .L48 2002

Physical Chemistry: A Molecular Approach, by D. A. McQuarrie
QD453.2 .M394 1997

There are a number of other P. Chem. Textbooks.

Any one with which your comfortable would be fine to review the fundamental principles + Particle in a Box, Rigid Rotor, Harmonic Oscillator, ... at an introductory level.

Quantum Chemistry

Introduction to Quantum Mechanics in Chemistry, by M. A. Ratner and G. C. Schatz
This is the text on which I based my lectures. However, there is very little detail on how gets from one equation to another + very little spectroscopy and other topics covered.

I have copies of the first several chapters. Several very good students borrowed them last year, but did not find it useful.

Quantum Chemistry, by D. A. McQuarrie

QD462 .M4 1983

This is a book I used for several years in the 1990's. It's well written, but a bit lower level than parts of the course.

Quantum Chemistry, by I. N. Levine

This is a very comprehensive and well-written textbook. The problem is that he presents much of the material at a level higher than that for our course.

Contemporary Quantum Chemistry: An Introduction, by J. Goodisman

QD462 .G649 1977

Molecular Quantum Mechanics, by P. W. Atkins

QD462 .A84 2005

Introduction to Quantum Chemistry, by J. M. Anderson

QD462 .A53

Quantum Mechanics in Chemistry, by M. W. Hanna

QD462 .H3 1969

Introduction to Quantum Chemistry, by C. R. Gatz

QD462 .G37

Principles of Quantum Chemistry, D. V. George

QD462 .G46 1972

Quantum Chemistry, by John P. Lowe

QD462 .L69

Quantum Mechanics, an Introduction, by H. L. Strauss

QC174.1 .S83