

EE222: Applied Quantum Mechanics I

Instructor: Jelena Vuckovic

Fall 2006

Mon Wed Fri 11 - 12:50 am

Herrin T175

Class web-site

<http://www.stanford.edu/class/ee222>

Instructor's coordinates:

Ginzton Labs, office 1

Phone: x5-2288, E-mail (@stanford): jela

WWW: <http://ee.stanford.edu/~jela>

Instructor's office hours

Fridays, 3:00 pm – 5:00 pm, Ginzton 1

TA's:

1. Bryan Ellis (bryane)
2. Andrei Faraon (faraon)

Office hours:

Bryan: Wednesdays 3-5pm, Ginzton 31

Andrei: Thursdays 3-5pm, Ginzton 31

Graders:

Dirk Englund (englund)

Yiyang Gong (yiyangg)

Course reader (required)

David A. B. Miller "Applied quantum mechanics"

(Hardcopies available at the bookstore. Accompanying animations can be downloaded from the class website - from the coursework portion)

Other course materials

Lecture notes, presentations, homework and homework solutions - available online at the coursework portion the class website.

Other useful references

If you would like to consult materials in addition to the course reader and lecture notes, I recommend you "Quantum Mechanics", vols. 1 and 2 by Claude Cohen-Tannoudji, Bernard Diu, and Franck Laloe (John Wiley & Sons). This book is available for purchase at the bookstore, and several copies are also on reserve in the library. Please note that most of the Fall quarter's topics are covered by Volume 1.

There are also other well-known quantum mechanics books that you may be interested in (e.g., Liboff, Sakurai...).

Weekly homework

- Weekly problem sets posted on the class web site (on Fridays), and solutions due one week later.
- Weekly reading assignments
- Late homeworks will be graded according to the following formula:

$$s(t) = \begin{cases} s(0) \cdot e^{-t/14}, & 0 \leq t < p \\ 0, & t \geq p \end{cases},$$

where t is the time when homework is turned in (measured in days from the due date $t=0$), $s(t)$ is the homework score as a function of time, $s(0)$ is the homework score on the due date, and p is the time when solutions are posted on the class web site (measured in days from the due date).

Exceptions to grading according to this formula are possible in special circumstances, by contacting the instructor.

Honor code

Homework: Discussion with others is strongly encouraged, but you are not allowed to copy somebody else's homework solution or use any sources that contain the answer to an assigned problem or one very similar to it.

Exams: Discussion, copying, and any type of collaboration on exams are not allowed.

Grade distribution:

Homework = 50%

Midterm = 15%

Final = 35%