

Electromagnetics I

VE230

Welcome!

LECTURER: NANA LIU
SUMMER 2021



JOINT INSTITUTE
交大密西根学院

A little bit about myself...

I have been a professor at the Joint Institute for one year so far. I'm also a professor at the Institute for Natural Sciences in SJTU

My main research area is quantum information and quantum computation

Website: nanaliu.weebly.com

Here are your lovely and helpful TAs this term...

Ruirong Huang

Han Fang

Yu Yang

Some important logistics
about the course...

Course logistics

1. Online class basics
2. Class timetables
3. Contacts
4. Assessments
5. Reference materials

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Online class basics

1. If you are not speaking, please mute your microphones. If you want to speak, don't forget to turn your microphones back on.
2. I prefer you to speak up during class if you can. We want to hear your lovely voices 😊 You can also use the 'raise your hand' button. However, if I don't answer, it means I didn't see it, so easier just to speak up!
3. If any questions are not answered in class, please use the recitation classes or office hours. More on this later
4. If you are experiencing any technical issues with Feishu your TAs will help you

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Class timetables

Here are the available contact hours you will have with your instructors. You will have lectures on new materials and recitation classes.

1. Class lectures (Nana):

Tuesdays 6:20-8:00pm

Thursdays 6:20-8:40pm

Class timetables

Here are the available contact hours you will have with your instructors.

You will have lectures on new materials and recitation classes.

2. Recitation classes with your TAs. 2 hours every week

Schedule will be announced soon on canvas

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Contacts

Email contacts:

Nana (joint email with TAs dedicated to this course): nanaumsjtu@gmail.com.

Han Fang: han.fang@sjtu.edu.cn

Ruirong Huang: ruirong.huang@sjtu.edu.cn

Yu Yang : yu_yang1998@sjtu.edu.cn

Note: if you have a private issue where you don't want your email read by the TAs and it's for my eyes only, then you can contact me at nana.liu@sjtu.edu.cn.

My office: Room 321 Building 5 Institute of Natural Sciences

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Assessments

You will have the following outside-class work to do to help you better consolidate the material

1. Homework: 9 of these, will be given once a week outside of exam weeks

These will be collected but will not form a fraction of your total grade. However, doing these regularly means you will understand better and I might pick out problems here randomly for exams and quizzes

2. 6 in-class quizzes: 20%
3. 2 mid-term exams: 25%+25%
4. Final exam: 30%

Assessments

1. For in-class quizzes and exams:
 - a) No talking or collaboration, just like in a normal quiz/exam
 - b) Closed book. Only basic calculator allowed
 - c) This will be proctored by me and your Tas. These are university rules.
2. For exams:
 - a) 100 minutes each for 3 exams
 - b) 1 cheat-sheet allowed

These rules are the same for the previous EM classes, so I'm afraid I cannot make any exceptions or change the rules

Assessments

JI Honor Code:

<http://umji.sjtu.edu.cn/academics/academic-integrity/honor-code/>

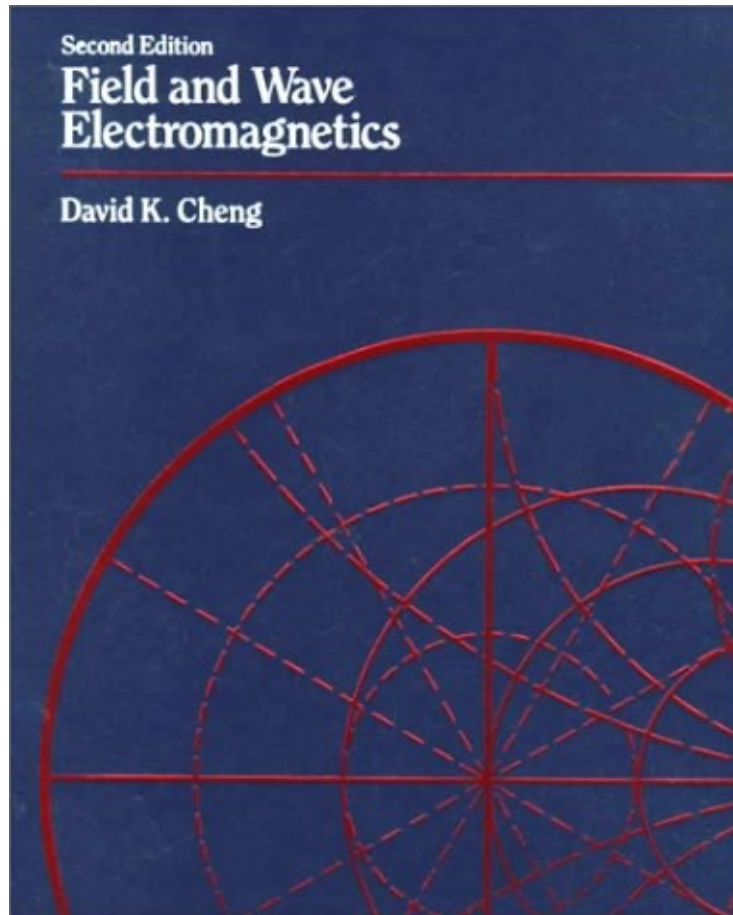
Assessments

Relax...and enjoy your learning!

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Reference materials



Main textbook

Reference materials

Introduction to Electrodynamics (3rd Edition), David J. Griffiths, 世界图书出版公司 9787506272896

Elements of Engineering Electromagnetics (5th Edition), Nannapaneni Narayana Rao, Prentice Hall International, Inc. ISBN: 0130255610

Fundamentals of Applied Electromagnetics (7th Edition), F. T. Ulaby, U. Ravaioli, Pearson, ISBN: 0133356817

Electricity and Magnetism (3rd Edition), Edward M. Purcell and David J. Morin, Cambridge, ISBN: 9781107014022

The Feynman Lectures on Physics, Richard P. Feynman, Robert B. Leighton, and Matthew Sands, Pearson, ISBN: 0201510049

Tell me a little about you...

Questions before we get to
the science?

A few rules in my class...

- There's no such thing as a stupid question
- Questions are more important than answers
- Feel free to be vocal about anything you disagree with or are uncomfortable with
- Encourage each other
- Have fun!! 😊