# Electromagnetics I VE230

# Welcome!

LECTURER: NANA LIU SUMMER 2020



# A little bit about myself...

I'm a new professor in the Joint Institute. I'm also joining as a professor at the Institute for Natural Sciences in SJTU

My main research area is quantum information and quantum computation

Website: nanaliu.weebly.com

# Some important logistics about the course...

- 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 zoom, write in the chat group and our TA today Xiaoxue will help you
- 5. Try to enjoy the new online learning environment!

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## Class timetables

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

Class lectures (Nana):

New materials: 4 lecture hours per week for 12 weeks

Tuesdays 6:20-8:00pm

Thursdays 6:20-8:00pm

Discussion sessions (Nana): 1 lecture hour per week for 12 weeks

Thursdays 8:00-8:40pm

## Class timetables

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

- 2. Recitation classes with your TAs. 2 hours every week
  - 1) Naihao: Wednesday 8am-10am
  - 2) Xiaoxue: Monday 6:30pm-8:30pm
  - 3) Shuyuan: Friday 6:30pm-8:30pm

## Class timetables

#### Attendance requirements:

Take these online classes with the same attitude as you would for real in-person classes. It will help you learn in the long-run ©

Lectures and recitation classes are compulsory and attendance will be noted on the online system. Should make more than 6 recitation classes of more than 1 hour each

If you have special circumstances, please let me know by end of today, since university rule is missing more than 50% of lectures and recitation classes result in a fail.

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### Contacts

Office hours: on zoom

1. Nana: Tuesdays 4-6pm

2. Naihao: Saturday 8am-10pm

3. Xiaoxue: Wednesdsay 1pm-3pm

4. Shuyuan: Monday 10am-12pm

#### **Email contacts:**

Nana (joint email with TAs dedicated to this course): <a href="mailto:nanaumsjtu@gmail.com">nanaumsjtu@gmail.com</a>.

Naihao: dnaihao@umich.edu

Xiaoxue: xxzhong0609@sjtu.edu.cn

Shuyuan: <a href="mailto:hsy1108@sjtu.edu.cn">hsy1108@sjtu.edu.cn</a>

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 <a href="mailto:nana.liu@sjtu.edu.cn">nana.liu@sjtu.edu.cn</a>.

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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 examweeks

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: 15%

3. 2 mid-term exams: 25%+25%

4. Final exam: 30%

5. Attendance: 5%

- 1. For in-class quizzes and exams:
- a) Done completely independently. No talking or collaboration, just like in a normal quiz/exam
- b) Closed book. Only basic calculator allowed
- c) This will be webcam-proctored by me and your TAs: need to turn on your camera and microphone. These are university rules.
- For exams:
- a) 100 minutes each for 3 exams
- b) 1 cheat-sheet allowed

These rules are the same in the two streams of EM1, so I'm afraid I cannot make any exceptions or change the rules

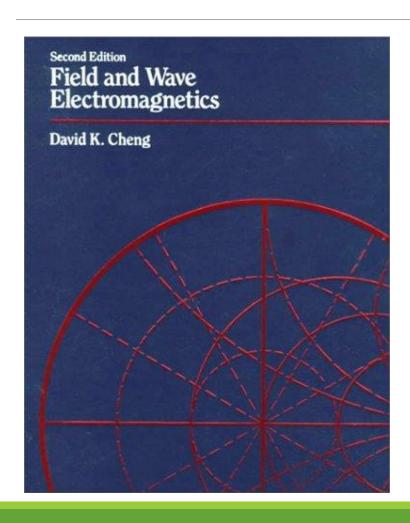
JI Honor Code:

http://umji.sjtu.edu.cn/academics/academicintegrity/honor-code/

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. Ravailoi, Pearson, ISBN: 0133356817

Electricity and Magnetism (3<sup>rd</sup> 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

# Questions before we get to the science?