

**NTHU Electrical Engineering Department**  
**EE2140 Electromagnetism (電磁學)**  
**Spring 2023**

**Instructor:** 洪毓珽 (台達 927 分機 62175) [y chung@ee.nthu.edu.tw](mailto:y chung@ee.nthu.edu.tw)

**Time:** M3M4 and W2

**Location:** 台達 215

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**Prerequisite:**

General Physics, Calculus

**Course Description:**

- Introduction of electromagnetics
- Electrostatics and magnetostatics
- Time-varying fields and Maxwell's equations
- Plane electromagnetic waves
- Applications

**Grading Policy:**

Quiz (weekly)	20%
Midterm I	20%
Midterm II	25%
Final Exam	35%

**Teaching Method:**

Lectures

**Reference:**

- D. K. Cheng, *Field and Wave Electromagnetics*, 2<sup>nd</sup> Edition, Addison Wesley.
- D. Griffiths, *Introduction to Electrodynamics*, 4<sup>th</sup> Edition, Pearson.
- F. Ulaby, U. Ravaioli, *Fundamentals of Applied Electromagnetics*, 7<sup>th</sup> Edition, Pearson.
- N. Rao, *Elements of Engineering Electromagnetics*, 6<sup>th</sup> Edition, Prentice Hall.