Introduction to Modern Physics

鄭靜

Department of Physics at National Cheng Kung University
Course contents I: **Matter Waves**

- Classical Waves
- Diffusion
- Schrodinger Wave Equation
- Concept of Probability
- Wave Packet
- Uncertainty Principle
Course contents II: Quantization

- 1D Systems
- 2D Systems
- 3D Systems
- Angular Momentum
- Spin
Course contents III: Multiparticle Systems

- Classical multiparticle systems
- MultiFermion systems
- Atoms and Molecules
- Solids
- MultiBoson systems
Reference books

- R. Eisberg and R. Resnick
  *Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles*

- A. Beiser
  *Concepts of Modern Physics*

- R. W. Robinett
  *Quantum Mechanics (Advanced)*

Homeworks:


Office hours: 11:10~12:00 on Mondays

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