Class Handouts and Notes

Part I. Essential Physics for Engineers

1. Classical View of the Universe
2. Quantum Mechanics and the Universe
3. Particles That Make up Our World
4. Particles in Periodic Potentials
5. Particles in Attractive Potentials
6. Tunneling of Particles

Part II. Introduction to Nanoelectronics

1. Semiclassical and Quantum Transport
2. Nanoscale Si MOSFETs
3. Carbon Nanotube FETs
4. Molecular Transistors