

DE-100A: STUDY GUIDE

Introduction and Overview - what topics will you be learning
 - thermodynamics, gases, electricity, magnetism, optics, quantum mechanics
 - **Chapter 1: Thermodynamics**
 - **Chapter 2: Gases**
 - **Chapter 3: Electricity**
 - **Chapter 4: Magnetism**
 - **Chapter 5: Optics**
 - **Chapter 6: Quantum Mechanics**

Chapter 1: Thermodynamics
 - **1.1. Temperature**
 - **1.2. Heat**
 - **1.3. Work**
 - **1.4. The First Law of Thermodynamics**
 - **1.5. The Second Law of Thermodynamics**

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 - **2.1. Kinetic Theory of Gases**
 - **2.2. Ideal Gas Law**
 - **2.3. Real Gases**
 - **2.4. Heat Engines**
 - **2.5. Heat Pumps**

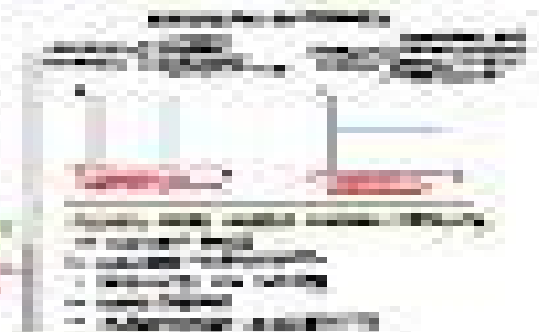
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 - **3.4. Current**
 - **3.5. Resistance**
 - **3.6. Power**
 - **3.7. AC Circuits**
 - **3.8. Magnetic Fields**
 - **3.9. Induction**
 - **3.10. Transformers**



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 - **4.2. Force on a Moving Charge**
 - **4.3. Force on a Current-Carrying Wire**
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 - **4.6. Faraday's Law**
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 - **4.8. AC Circuits**
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 - **5.6. Diffraction**
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Chapter 6: Quantum Mechanics
 - **6.1. Wave-Particle Duality**
 - **6.2. The Photoelectric Effect**
 - **6.3. Compton Effect**
 - **6.4. Matter Waves**
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 - **6.6. Schrodinger's Equation**
 - **6.7. Atomic Structure**
 - **6.8. Molecular Structure**
 - **6.9. Solid State Physics**
 - **6.10. Nuclear Physics**



Microeconomics Study Guide Final

Chao Zhang



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