

## PH315 Reading list (Chronological Order)

### **Sustainable Energy Without the Hot Air**, by McKay (website has link to free pdf)

1. Motivations
2. The balance sheet
3. Cars
4. Wind
5. Planes
6. Solar
7. Heating and cooling
8. Hydroelectricity
9. Light
- A. Cars II
- B. Wind II
- C. Planes II
- D. Heating II
- E. Heating II
- F. Waves II

### **Unit T (Thermal): Some Processes are Irreversible**, by Moore

#### **3<sup>rd</sup> edition**

- T1 Temperature
- T5 Ideal gas (starting from section 5.5)
- T7 Gas processes
- T9 Heat engines
- T10 Physics of climate change

### **Unit Q (Quantum): Particles Behave Like Waves**, by Moore

#### **3<sup>rd</sup> edition**

- Q1 Wave models
- Q2 Standing waves and resonance
- Q3 Interference and diffraction
- Q4 Particle nature of light
- Q5 Wave nature of particles
- Q10 Simple quantum models
- Q11 Spectra
- Q13 Introduction to nuclei
- Q14 Nuclear stability
- Q15 Nuclear technology