

## Chapter 11—static fluids

11.4 (Density)

11.12 (Pressure, depth, and measurement)

11.26 (Pascal Principle)

11.41 (Bouyancy)

11.60 (Cohesion, Adhesion, capillary action)

11.75 (Body pressures)

## Chapter 12—fluids in motion

12.3 and 12.53 (Types of fluids, types of flows)

12.22 (Bernoulli)

12.31 (Viscosity and pipe flow resistance)

12.63 (Diffusion)

## Chapter 13—Temperature and its effects

- (Temperature and its measurement)

13.12 and 13.25 (thermal expansion of solids, liquids, and gases)

-(phase diagrams)

13.42 (connecting temperature to KE)

13.62 (water vapor and partial pressure)

## Chapter 14—Heat transfer and its effects

14.6 and 14.15 (heat and its effect on the temperature of solids, liquids, and gases)

14.31 (Conduction)

14.52 (Convection)

14.60 (Radiation)

Chapter 15—Thermodynamics (or wrapping it all up)

15.12 (1<sup>st</sup> law of thermodynamics)

15.20 (Heat engines)

15.52 (2<sup>nd</sup> law of thermodynamics via  $\Delta S=Q/T$ )

15.63 (2<sup>nd</sup> law of thermodynamics via  $S=k_b \ln(\text{multiplicity})$ )