PS 160 - Young and Freedman

Reading	Suggested Problems	topics
13.1-3		simple harmonic motion
13.4-5		pendulum, etc
13.6, 14.1-2	Ch 13 - 7, 15, 23, 31, 33, 45	physical pendulum, fluid pressure, density
14.3-5		bouyancy, Bernoulli's eqn, laminar flow
15.1-3	Ch 13 - 53; Ch 14 - 5, 17, 33, 37, 41	mechanical waves
15.4-5		transverse waves, energy
15.6-8	Ch 15 - 5, 7, 9, 17, 21, 23	interference, standing waves, resonance
16.1-2		sound waves
16.3-4	Ch 15 - 29, 35, 45, 47; Ch 16 - 3, 11	intensity, standing sound waves
16.5-8		resonance, beats, Doppler effect
	Ch 16 - 15, 27, 31, 33, 39, 43	review
17.1-3		temperature, thermometers
17.4-6		thermal expansion, calorimetry
17.7	Ch 17 - 7, 15, 25, 29, 37, 55	heat transfer
18.1-2		equations of state
18.3-4	Ch 17 - 59, 77; Ch 18 - 11, 13, 25, 29	kinetic theory I, heat capacity
18.5-6		kinetic theory II, phase diagrams
19.1-4	Ch 18 - 17, 33, 35, 43, 48, 53	first law of thermodynamics
19.5-6		internal energy, work, heat
19.7-8	Ch 19 - 7, 9, 13, 17, 21, 25	ideal gases, adiabats
20.1-3		heat engines, reversibility
20.4-6	Ch 19 - 31, 35, 37; Ch 20 - 3, 5, 7	refrigerators, second law of thermodynamics
20.7-8		entropy
	Ch 20 - 11, 17, 21, 25, 31, 43	review
33.1-2		reflection, refraction
33.3-5		TIR, dispersion, polarization
34.1-2	Ch 33 - 5, 7, 17, 25, 47, 59	spherical mirror
34.3-4		thin lenses
34.5-8	Ch 34 - 1, 7, 11, 25, 27, 31	camera, eye, magnifier, telescope
35.1-3		interference, two-slit
35.4-5	Ch 34 - 51, 93; Ch 35 - 3, 9, 17, 23	thin films
36.1-3		single-slit diffraction
36.4-5	Ch 35 - 27, 29, 35; Ch 36 - 9, 13, 17	multiple slits, grating
36.6-7		circular slits, resolution
	Ch 36 - 25, 35, 39, 47, 60, 68	review