Text: "PHYSICS for Scientists and Engineers"

by R. D. Knight. (+ Giancoli online)

Week,	1 st Lecture	2nd Lecture
commencing	11:00 am Tuesday	11:00 am Thursday
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1 – Sep.3		Fluids: Statics; Pressure in fluids
		Ch. 15.1, 2.
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2 – Sep. 10	Fluids: Statics; Atmos. Press; Blood press;	Fluids: Statics; Buoyancy, Archimedes
	Pascal, Hydraulic jack. Ch. 15.3	Principle. Ch. 15.4
3 – Sep. 17	Fluids: Dynamics; Bernoulli's Eq.	Fluids: Dynamics; Bernoulli's Eq.
3 – Scp. 17	Ch. 15.5.	Ch. 15.5.
	CII. 13.3.	CII. 13.3.
4 – Sep. 24	Fluids: Dynamics: Bernoulli's Eq.	Simple Harmonic Motion (S.H.M.),
	Viscosity, Giancoli:Ch. 13-10, 11.	Circular Motion, Ch. 14-1, 2, 4
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5 – Oct. 1	S.H.M. (continued), Energy.	S.H.M. Pendulum, Damped Harmonic
	Ch 14.3, 5	Motion, Ch. 14.6, 7
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6 – Oct. 8	Forced Harmonic Motion, Resonance	Travelling Waves
	Ch. 14-8	Ch. 20.1, 2, 3, 4.
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7 – Oct. 15	Sound, Intensity, Decibels, Ear response	Doppler effect: sound waves, reflections
	Ch. 20.5, 6. Giancoli: Ch. 16-1, 2, 3.	Ch. 20.7, Giancoli Ch. 16-7.
8 – Oct. 22	Doppler effect: electromagnetic radiation	Mid-term Exam
6 – Oct. 22	Ch. 20.7.	October 25.
	CII. 20.7.	October 23.
9 – Oct. 29	Interference, Standing waves on Strings	Mid-term Exam review
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	cm. 21.1, 2, 3.	
10 – Nov. 5	Standing waves in Air columns.	Interference, Thin films
	Ch. 21.4	Ch. 21.5, 6, Class notes
11 – Nov. 12	Interference, Thin films, Beats	Young's 2-slit experiment.
	Ch. 21.8.	Ch. 22.1, 2
12 N 10	Diffraction Cincle slit	Diffraction, Davids alit Circular and
12 – Nov. 19	Diffraction, Single slit	Diffraction: Double slit, Circular aperture
	Ch. 22.4.	Class notes, Ch. 22.5.
13 – Nov. 26	Diffraction: Resolution, Grating	Review.
15 1107. 20	Ch.22.3, 5, Class notes	TO VIO W.
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