

physics 202 summer session 1994

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Week	Lecture Topics	Text readings	Exam	Lab
1	Waves (general) Waves on strings Sound waves Doppler shift/transmission	Ch 14.1 - 14.7 Ch 15.1 - 15.7		mon } none tues } wed } S1 & S3 Thurs }
2	Electrical Forces Electrical field Potential function Gauss law I	ch 22 ch 23 ch 25 ch 24	R Ex I	M } E1 & E2 T } W } None R }
3	Gauss law II Conductors Capacitance Capacitance & Resistance	ch 24 ch 26.1 - 26.4 ch 27		M } E4 T } W } E3 R }
4	Dielectrics Kirchoff laws/amp Circuits Circuits/Relativity I	ch 26.5 - 26.6 ch 28 ch 40	R Ex II	M } E5 T } W } None R }
5	Relativity II magnetic field Ampere's law Faraday's law	ch 40 ch 29, ch 32 ch 30 ch 31		M } E6 T } W } E7 R }
6	RLC circuits Generators/induction AC circuits I AC circuits II	ch 33 ch 34 } ch 30	R Ex III	M } E8 T } W } E9 R }
7	Electromagnetic radiation Optical properties Snell's law mirrors/lenses	ch 35 ch 36 } ch 37		M } E10 T } W } L2 R }
8	lenses/young's exp. interference Diffraction Gratings	ch 37 ch 38 } ch 49	R Ex IV	M } L1 T } W } None R }

Text: Physics for Scientists and Engineers
(Fishbane, Gasiorowicz, Thornton)