Physics 323 Spring 2016

Text: Griffiths, "Introduction To Electrodynamics," 4th ed.

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week	date	lecture topic	reading
1	29-Mar	Absorption & dispersion	9.4.1
	31-Mar	Electron theory of materials	9.4.3
2	5-Apr	Wave guides	9.5.1
	7-Apr	Rectangular TE & TM modes	9.5.2
3	12-Apr	Coaxial lines and termination	9.5.3
	14-Apr	Resonant cavities	special topic
4	19-Apr	Potential formulation & gauges	10.1.1, 10.1.2
	21-Apr	EXAM 1	
5	26-Apr	Lorentz gauge. Canonical momentum	10.1.3, 10.1.4
	28-Apr	Retarded & advanced potentials	10.2.1, 10.2.2
6	3-May	Liéinard-Weichert potnentials	10.3.1, 10.3.2
	5-May	Radiation. Electric dipole radiation	11.1.1, 11.1.2
7	10-May	Magnetic dipole radiation.	11.1.3, 11.1.4
	12-May	EXAM 2	
8	17-May	Power radiated by a point charge	11.2.1
	19-May	Radiation reaction	11.2.2
9	24-May	Issues with radiation reaction. Damping	special topic, 11.2.3
	26-May	Why is the sky blue? Start special relativity	special topic, 12.1, 12.2
10	31-May	Transformation of fields	12.3.1, 12.3.2
	2-Jun	Tensor form of electrodynamics	12.3.3, 12.3.4, 12.3.5
11	8-Jun	FINAL EXAM	