				(1333)
,	Date_	#	Lecture *	Assignment
1	Wed. 13 Jan.	1	Introd. EM Wave Egts & D'Alembert Sola (pp Wares 1-2).	=
	Fri, 15 "CH.7	2	Plane waves & Forvier Sole. Effect of S. Polar = n (++. 2-5).	(4) Probs, 46-48 (45pts)√
2	Mon. 18 "	1	HOLIDAY: M. I. King	Au-
	Wed. 20 " 1	3	Polar = n (pp. Wares 5-6). Snell's Law & Fresnel Egs. (pp. 7-8).	_
	Fri. 22 n	4	Frèsnel Egs. 1pp.8-10). EM Waves in Dispossive Media (p. 11)	15 Probs. 49-51 (50 pts)
(3)	Mon. 25 n	5	EM Waves in Dispersive Media (pp. Waves 11-13). Water.	-
	Wed. 27 "	6	Conductivit Plans 1: + Motal (b) War 14-17)	-
1	Fri. 29 n	7	EE Version of Att : δ (pp 18-19). Ionspheric Waves (A1-A2)	16 Probe 52-55 (50 pts.)
4	Mon. 1 Feb.	8	Ignospheric Waves (A3-A4). Dispersion (pp. Waves 20-20),	
	Wed. 3 h	و	Dispersion of Wave Packets I (pp. Waves 20-22).	- ,
	Fru 5 n	10		Prots. 56-59 (50 pts)
<u>(S)</u>	Mon. 8 "	11	Dispersion Relations I: Introd"; E(W) analytic (pp.1-5).	
	Wed. 10 -	1	Dispersion Relations II: Kramers-Kroning relations (pp. 5-9).	-
	Fri. 12 " CH.11	13	SRT 1: Postulate: & Lorentz Transf= (pp. SRT 1-5).	Probs.60-62 (40pts)
6	Mon. 15 "	-	HOLIDAY: President's Day.	
	Wed. 17 "	14		- Σ[4-19] = 285 pts.
	5ri 19 n	15	SPET 3: Causality. 4-Vectors [to Eq. (3)] (pp. SRT 9-12).	(19) Prots, 63-66 (50 pts) Y
ব্	10n, 22 n	16	SRT 4: 4-Vectors: û, ã, p, etc [pp. SRT 11-15].	•
<b>V.</b>	Wed. 24 "	17	Relativistic Rocket Trip. (pp.1-7).	- Non Non. 5/8.
	Fri. 26 "	18	SRT 5: Formal Construction of LT's 1 (pp. SRT 16-19).	- Jule Mar. 3/6.
8		19	SRT 6: Contra & Covariant Notation (pp. SRT 20-23).	-
•	Wes. 3 "	20	finish Cov! Not! (p.24). Start Covariance of En (pp. 1-2).	_
	Fri. 5 n	21	EM Covariance II: On Ja=0, to DaFxp= 4TT JB (pp. 3-7).	noassianment (examitedy)
9	Mon. 8 "	r	finish EM Covariance (pp. 8-10) Introd. EM L & FL (p.1).	
©	Wed 10 11 CH.12		Relativistic L& H: construction of Len & Hem (pp.1-4)	- rduc Fri 3/22.
	Fri. 12 " +	24	MIDTERM EXAM! (160 pts): 3-5 P.M., AJM 230. 9	(1) Probs. 70-72 (40 pts).
<u></u>	Mon. 15 n	1_	SPRING BREAK	- Troste tedaport
	Wed. 17 "	_	SPRING BREAK	<b>i</b> _
	Fri. 19 "	_	SPRING BREAK	no assignment (vacation!)
<u>(10)</u>	Mon. 22 "	25	Review & finish Relativistic L& H (pp L&H 4-7)	
•	Wed. 24 "	26		- 1 due Fri. 4/2.
	Fri. 26 "	U	Lagrangian for a Continuum (pp. L4 H 8-10).	· · · · · · · · · · · · · · · · · · ·
<u>(11)</u>		28	Finish Llcontinum), pp.11-12. Start L(Fen), pp.13-14. L(Fen) → Max. Eqs. (pp L& H14-17).	- 110621 12 12 610 brz.1
$\odot$			Procals L(File), b L&H 18. Simple Rad (pp. RAD1-2),	- 1 due Mon. 4/12.
•	Med. 31 m		Simple Rad lph RAD 2-4): Length Scales of lead terms.	3 Prols. 76-78 (50 pts)
	CH.9	1 /0	some nua- up nu c-41. ungen schus queau "ums.	Of tool to to too bold

<sup>\*</sup> All lectures delivered on overheads, with Xevox handonts to students. \* For first 13 lectures, have couved 45 pp. of overheads => 3.5 pp./lecture. At 23 lectures: 86 pp. => 3.7 pp./lecture.

## \$520 (1993) cont'd

Date	#	Lecture	Assignment
12 Mon. <u>5 Apr</u> .	31	Simple Rad (bb. RAD 5-7). Summan & Dipole Approxy.	- Σ[M-3] = 455 pts.
Wed. 7.	32	Diffraction Theory I: Kirchoff Solution (pp DT 1-4)	- = = = = = = = = = = = = = = = = = = =
Fri. 9 .	-	HOLIDAY University Day.	-
13 Mon. 12 "	33	Diffraction Theory II: Fraunhofer & Fresnel (pp. 5-8).	@Probs, 79-80 (40 pts)
Wed. 14 CH13	34	Stopping Power I: Collisions in motter. Bohr's Eg. 1pp1-4).	-
Fni. 16 "+	35	Stopping Power II: Bothe's QM correction. Vs. Exp (pp. 5-8)	
	36	Stopping Power III: Farmi density effect Cerenhar (pp. 8-12)	
Wed. 21 414	37	qRadI: Coveriant Soln for A"(x) pp. 1-5.	-
Fri. 23 m	38	g Rad II: Tienand-Wie chert ptls of fields pp. 5-7.	<b>-</b> 3
15 Mm. 26 "	39	9 Rad III: Rad = per tarmor & Lienard [pp. 9 Rad 8-10].	36 Probs. 85-87 (30 bt)
Wed. 28 n	40	q Rad IV; Rad from circular accels. & Distribe [pp.10-13].	-
<u>Fri. 30 n</u>	41	q Rad V: & distrib" of rad": circular motion; \$3-1 lpp. 13-16].	_
16 Man. 3 Man	4r	a Rad VI: rutverelativistic 9 spectrum. Synch Rud [pp. 16-20].	
Wed, 5 10479	43	Eq- of- Motion for q: I: need for for acrection[pp.1-5].	
Fri. 711	44	Eq-of-Motion for q: II: Florents Eq. Schott term (bb, 610)	'
(12) Mon. 10 "	1	EXAM WEEK FINAL is worth 300pts	
Wed 12 n	-		EVALUATION
Fini. 14 n	-	Final is 3-6 P.M., Mon. 10 May 93 in AJM 230	

Est. prob = set pts (#40-20); 550-580 pts. ← was 575 pts, actual.

Exams should be worth = 450 pts total (45.0-43.7% of grade).

So, peg MIDTERM @ 150-180 pts | MIDTERM was 160 pts.

FINAL @ 300-270 pts. FINAL was 300 pts.

All in all : HMK = 575 pts (55.5% of grade) EXAMS = 460 pts (44.5% of grade)

Total: 157 pp. of notes in 43 lectures => 3.65 pp./lecture.

\* At 32 lectures, have covered 115 pp => 3.6 pp/lecture