Maple Index PhL 2.10.14

1. The **first index** here is a **by-file index** so I can find out what is where. Files alphabetical.
[this subsection is not updated with new mws files since 2.10.14, but next subsection is]

App B plots.mws Source for my Visio altered plot of B,H and Az for round wire.

App L1.mws. Plots that go with Appendix L.

Appendix G.mws. Calculations in support of my repair of the little magnetization section.

catseyes.mws. My plot of the cats eyes of Chapter 6.

debye calc.mws. Shows where the 82000 degrees comes from, some appendix.

Er solution.mws. Appendix D where I am solving a certain ODE.

field line plotter.mws. A first cut at a routine which maps out a curve, given that curve as 3 functions.

Gauss box idea.mws. Attempt to make a cube with colored sides (for a Gauss box), not used.

helmphi.mws. A Bessel ODE thing, not sure if or where used.

hollow pipe.mws. Plot that I use at the very end.

Holloway integral.mws. Here I do one of their 2D integrals for W_1.

Li for cyl shell.mws. No doubt for use in my Appendix C pipe calculation.

lines1.mws. Skin depth plots for Chapter 2.

lines2.mws. More plots for Chapter 2.

lines4.mws. A Chapter 2 B/E plot which I don't thing is used.

lines6.mws. These are the E, B and E/B plots that ARE used in Chapter 2.

low freq round wire.mws. Calc of A,B,C... etc of a section I threw out from an Appendix (maybe D).

network.mws. Calculation of Z_0 in the network Appendix.

please use arrays.mws. Tests regarding the "please use arrays" bug in Maple. This should be renamed and stored int he Maple area. I will do that right now. I deleted junk2.mws as more of same.

rectangle vn.mws. Versions of my attempt to plot the H field for a thin flat wire. This is all Appendix C, I am not sure right now where my final plots come from, probably the highest numbered one.

rectangle wire field new.mws. Seems to be another version of my H field 3D plot.

sec 3_4 table.mws. This is a little table of σ_{eff} values I guess in Section 3.4.

sec 3_6.mws. Calculations for Section 3.6 I think.

squarewire.mws. Same thing as above. I think I am trying to see if my H field plot is correct or not.

sqwire1.mws. I do the W_1 Kuester double integral I guess only for a square wire. Not used.

stuff with h(r).mws. This looks like calculation for Appendix I involving h(r).

temp1.mws. Calculate a,b,c,d,e,f for something.

temp2.mws. Some integral associated with Appendix C and L_i.

test1.mws. Tests regarding "function of a vector".

test11.mws. Something involving King's formulas for Chapter 6 stuff I think. ψ_1, B, b_1, b_2.

twoDwave.mws. Plot that goes with my water drop picture.

2. Second index: By location in lines doc **// last updated 10.19.14**

Page numbers are ± 1. Next time, don't use page numbers since they change a lot!

Chapter 1 nothing!

Chapter 2

Page 80, Kelvin's integers,	file is lost but simple	
Page 80 code	lines1.mws	
Fig 2.4,5,6,7	lines1.mws	
Page 86 code and all figures	lines6.mws	
Page 93 code and plots of Z_s	lines2.mws	Figs 2.12,13,14

Chapter 3

Page 103 code and little table on σ_{eff}	Ch 3/ sec 3_4 table.mws
Page 119 Fig 3.6a made by Maple	see Appendix O below
Page 120 Fig 3.6b picture and code	Lines overhaul Feb 2014/ Az lines1.mws and Visio

Chapter 4

Page 138 little integral	file is lost but simple
Page 145 tiny power line calc	file is lost but simple

Chapter 5 nothing!

Chapter 6

Page 207 cat's eyes plot	catseyes.mws
Page 217 plots of n(θ)	bipolar doc, (10.40)
Page 220 code	Chap 6 / plot prox effect 2.mws
Page 220 code and graphs	Chap 6 / plot prox effect 2.mws
Page 223 Fig 6.15	Chap 6/ temp5.mws (used to be here)
Page 225 code	Chap 6/ Sec 6_5 calc.mws

Chapter 7

Page 238 code C+Dln(r)	Ch 7/Chap 7 stuff.mws
Page 243 on Br etc	App D / B for small omega m GT 0.mws
Page 244 for m=0	App D / B for small omega m EQ 0.mws

Appendix A

Page 262 water drop graph	twoDwave.mws

Appendix B

Page 295 code and plot	App B plots.mws

Appendix C

Page 303 eval I1 and I2 etc	rectangle v7.mws and also earlier versions
Page 303 F(y,x,b,a)	rectangle v7.mws and also earlier versions
Page 304 H plot code and graph	rectangle v3.mws Fig C.2
Page 304 Fig C.2,C.3,C.4	rectangle v3.mws
Page 307 F1 expression	rectangle v3.mws
Page 307 equations and stuff	rectangle v3.mws
Page 311 arrow plots Fig C.9,10,11	rectangle v7.mws
Page 313 ash tray graphs Fig C.12	rectangle v7.mws
Page 314 Fig C.13 field lines for flat wire	rectangle v7.mws but stored in mag field plots REVIEWED.doc
Page 314 Fig C.14 field lines for flat wire	rectangle v7.mws but stored in mag field plots REVIEWED.doc
Page 315 J integral	temp2.mws
Page 317 stuff	temp2.mws
Page 318 Fig C.16	hollow pipe.mws

Appendix D

p 331 Below (D.2.12)	Er solution.mws
p 331 Below (D.2.14)	Er solution.mws
Page 334-335 huge chunk	verify E fields 1.mws
Page 335 block E = [..]	App D verify E fields fancy diffops.mws
Page 342-343 verify sols	verify E fields 3a.mws
Page 346-348 verify B etc	App D / B field verify 9_20.mws

Appendix E

Page 388 (E.11),(E.12)	debye calc.mws.

Appendix F nothing!
Appendix G nothing!
Appendix H nothing!
Appendix I nothing!
Appendix J nothing!
Appendix K nothing!

Appendix L

Page 437 Fig L.2 and code chunk	App L1.mws
Page 443 Fig L.2' and code chunk	App L1.mws

Appendix M

Page 452 Fig M.2	lost but simple

Appendix N

Page 460, 461 chunks	App N/ Hall Sec N_2.mws
Page 464 below (N.4.5) code	App N/ Hall Sec N_2.mws
Page 475 code above and below (N.7.22)	App N/ Hall Sec N_2.mws
Page 477 below (N.8.2) code	App N/ hall3.mws
Page 478 below (N.8.5) code	App N/ radial hall.mws

Appendix O

Page 480 Fig O.1 (see Fig C.2)	rectangle v3.mws
Page 481 Fig O.2	rectangle v7.mws
Page 483 below (O.11) code and Fig O.5	Chap 6/ fieldplot two cyl B.mws
Page 485-4860 and Fig O.6, O.7	lines overhaul / fieldlines 1.mws
Page 487 code below (O.14)	lines overhaul / B lines for two thin wires.mws

Appendix P

Page 496 code below (P.2.10) and Fig P.4	App P/ eddy2.mws
Page 501 code above (P.3.26)	App P/ Section P3c.mws
Page 503 code below (P.3.33) and Fig P.5	App P/ problem2.mws
Page 516 Fig P.14 thru P.17	App P/ fieldlines 2.mws
Page 508-512 arrows Fig P.7-11	App P/ arrows.mws
Page 516 Fig P.14 and P.15	App P/ fieldlines 2.mws
Page 517 Fig P.18, P.19 support (stretch)	App P/ arrows.mws

Appendix Q

Section Q.1 Model for Parameters	
Page 524 code below (Q.1.7)	App Q rewrite/ AppQ plots.mws
Page 525 Fig Q.1.1, Q.1.2, Q.1.3	App Q rewrite/ AppQ plots.mws
Page 527 code	App Q rewrite / Plots of Li and R vs w Belden.mws
Section Q.2 Re and Im of k(ω)	
Page 527 Fig Q.1.4 and Q.1.5	App Q rewrite / Plots of Li and R vs w Belden.mws

Section Q.3 Large ω of k(ω)
Page 530-533 code — App Q rewrite / Q2 hi omega k version 3.mws
Section Q.4 Small ω of k(ω)
Page 535-536 low ω limit G>0 — App Q rewrite / Q2 lo omega k version 3 wd GT 0.mws
Page 537-538 low ω limit G=0 — App Q rewrite / Q2 lo omega k version 3 wd =0.mws
Section Q.5 Belden cable k(ω)
Page 539 (Q.5.1) — App Q rewrite / plotting k.mws
Page 539 (Q.5.2) — App Q rewrite / plotting k.mws with manual effort
Page 539 Fig Q.5.1 — App Q rewrite / plotting k.mws end of file
Page 540 Fig Q.5.2 — App Q rewrite / plotting k.mws
Page 5413 Fig Q.5.3 — prev plot with different endpoints
Page 541 Fig Q.5.4 — App Q rewrite / plotting k.mws
Page 542 Fig Q.5.5 support — App Q rewrite / plotting k.mws
Page 543 Fig Q.5.6 support — App Q rewrite / plotting k.mws
Page 543 Fig Q.5.7 — App Q rewrite / plotting k.mws
Page 544 Fig Q.5.8 — App Q rewrite / plotting k.mws
Page 535 bad plot — App Q rewrite / plotting k.mws with param changes
Section Q.6 Re and Im parts of $Z_0(\omega)$ — nada
Section Q.7 Large ω for Z_0
Page 547-549 code — App Q rewrite / Q2 hi omega Z0 version 3.mws
Section Q.8 Small ω for Z_0
Page 551-554 code — App Q rewrite / Q2 lo omega Z0 version 3 wd GT 0.mws
Page 555-556 code — App Q rewrite / Q2 lo omega Z0 version 3 wd=0.mws
Section Q.9 Z_0 for Belden
Page 555 code — App Q rewrite / plotting Z0.mws
Page 555 Fig Q.9.1 — App Q rewrite / plotting Z0.mws (end of file)
Page 556 Fig Q.9.2 — App Q rewrite / plotting Z0.mws (end of file)
Page 557 Fig Q.9.3, Q.9.4.Q.9.5 — App Q rewrite / plotting Z0.mws
Page 558 Fig Q.9.6 — App Q rewrite / plotting Z0.mws
Page 559 Fig Q.9.7 and Q.9.8 — App Q rewrite / plotting Z0.mws

Appendix R
all code and graphs — App R/ belden v3.mws

Appendix S nothing!

References nothing!